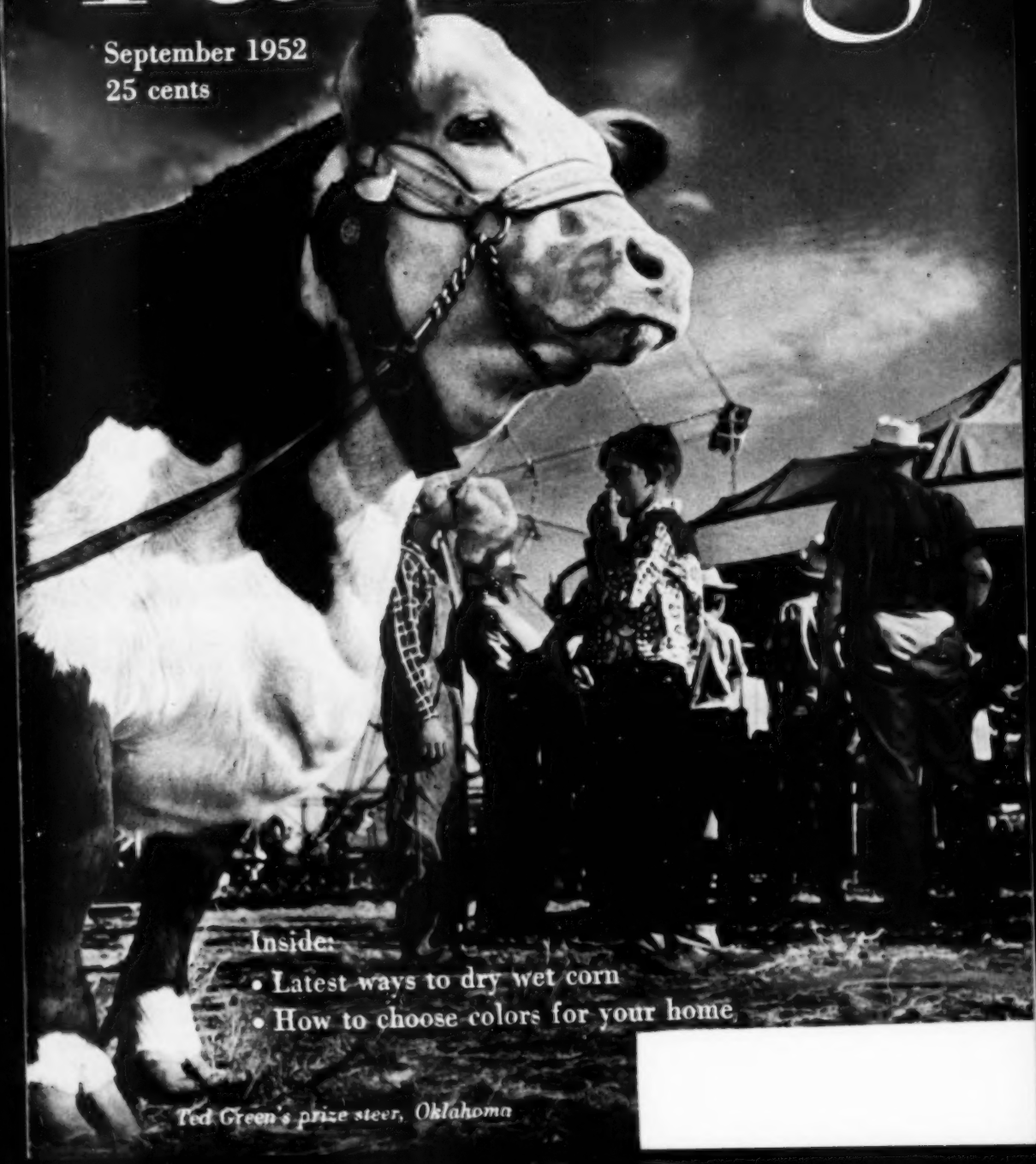
Successful Farming

September 1952
25 cents



Inside:
- Latest ways to dry wet corn
- How to choose colors for your home

Ted Green's prize steer, Oklahoma

Illustrated above: Style Commander V-8 4-door sedan.

8 tire side wall tires, chrome wheel discs — and glare-reducing tinted glass — optional at extra cost.

Own a smart Studebaker! Get marvelous gas mileage!

YOU START cutting your driving costs right away, once you're the proud owner of a trim, sleek new Studebaker.

There's no power-wasting excess weight in a Studebaker. As a result, you save gas every mile you click off.

How big these savings can be was demonstrated in this year's Mobilgas Economy Run. A Studebaker Champion and Commander V-8 finished first and second in actual gas mileage in that event—to top a field of 23 standard class cars.

The Studebakers and most contenders used Overdrive—available, like Studebaker Automatic Drive, at extra cost.

THIS YEAR LET'S ALL VOTE

1852 1952 Studebaker

One hundred years of progress on the roadways of the world

Excitingly new! The jet-streamed Studebaker Starliner!
This "hard-top" comes as a Commander V-8 or a Champion.

"CAN'T BEAT IT FOR TRACTION"

How can you be sure that the tractor tires you buy will give you traction when and where you need it most? Perhaps this fact will help you decide:

Year after year far more farmers prefer Goodyear's farm-proved Super-Sure-Grip to any other make. There is no close second!

This overwhelming preference stems from the fact that farmers find "you can't beat Goodyears for traction"—that Super-Sure-Grips pull where others don't. Isn't this your surest guide to the best tractor tires for you—especially since Goodyears cost no more?

3 REASONS WHY GOODYEARS GIVE "THE GREATEST PULL ON EARTH"

STRAIGHT LUGS. Goodyear lugs are ruler-straight and come closer together at the shoulders—providing the time-proved, wedge-like bite that holds the soil in place and gives this tire more traction—gives your tractor more pulling power.

O-P-E-N C-E-N-T-E-R pioneered by Goodyear. Most widely imitated of all tractor tread designs because farm experience proves it the most efficient—*when combined with straight lugs!*

EVEN WEAR. Goodyear *straight* lugs work against the soil evenly, pull evenly, wear more evenly—to lengthen tire life and make your tire dollars go farther.

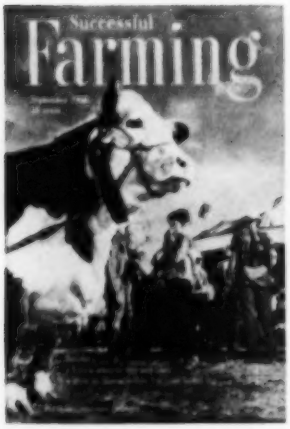
FIRST in Traction • FIRST in Long Wear
FIRST in Popularity

GOODYEAR

Super-Sure-Grip Tractor Tires

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

This month



Photograph: Bob Taylor

Nubbins, the Hereford steer shown on this month's cover, was photographed just after he had won the reserve championship in the senior Hereford class at the 1951 Washita County Fair, Cordell, Oklahoma. The steer went on to place a presentable eighth in the summer yearling class at the state fair in Oklahoma City.

His owner, 18-year-old Ted Green of Cordell, has fed and exhibited several champion calves in four years of F.F.A. work. In 1949 he had a Shorthorn which placed second in his class at the big Tulsa State Fair. This year he has another Hereford for which he has high hopes at Oklahoma City and Tulsa.

Cordell is in southwestern Oklahoma where wheat country and the Cotton Belt come together. Ted and his father, W. L. Green, operate 500 acres, mainly in these two crops. This year, their 350 acres of wheat made 28 bushels per acre, modestly described by Ted as being "a pretty fair yield." Around the middle of July some 50 acres of cotton, too, were looking good.

On the livestock side, they run 35 head of Hereford and Angus cows bred to their own registered bulls. The best calves they keep for breeding stock and sell for show calves. The poorer ones are grassed until ready to ship at 800 to 900 pounds. Twenty acres of alfalfa hay and 25 or 30 acres of grain sorghum made into silage take care of their cattle over the winter.

Ted plans to start farming on his own next year "if everything works out." He is looking for a grass-and-wheat farm where he can start a purebred Angus herd—near enough to home that his dad can take care of it if he has to spend some time in the service. He intends to start with 10 cows and a registered bull and will sell show calves and registered heifers.
—*George D. Johnson*

Successful
Farming
The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES
September, 1952 Vol. 50, No. 9

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LONG ROW TO HOE...

Yes, this young fellow has his work cut out for him! Because by the time he's ready to take over the farm or start out on his own, he'll not only need a better general education, but will have to know more about modern scientific farming than his grandfather—or even his own Dad—ever needed to know.

Progress in every field is so rapid today that it's becoming more and more important for young men and women to have the benefit of a college education . . . if they possibly can.

That's why it's so important to start planning *early* for your children's future schooling—and so wise to back up your plans and your hopes with life insurance.

That way, you'll *know* your children will have the money to finish their education and get off to a better start in life whether you yourself live to see them through or not.

The New York Life agent serving your county will be glad to show you how easily "college money" can be included in an overall life insurance program, designed for your entire family's long-range protection and security. Get in touch with him today—or, if you don't know his name, just write to the Home Office at the address below.

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Farm Outlook

Latest information on conditions, production, markets, and income prospects

Mixed movements

Farm production up; industrial production down. That's the picture this summer. *Food and feed crops are the largest in several years. Industrial output is the smallest since the outbreak in Korea.*

Steel stoppage has done more to reduce output of civilian goods than the production of military goods was *expected* to do. More than a million producers and users of steel were out of work in mid-July.

Effect has been to soften consumer demand for farm products, and to boost the prices of things you buy.

Fall harvests

Fall harvests promise to be big, provided labor is adequate to get in the crops. *Don't delay longer in lining up your harvest help.*

Partly because of labor lack, spring plantings were 4 million acres below last year, and 10 million below P.M.A. goals. Most of this year's reduction in labor supply has been in farm-family labor lured off the farms by high industrial wages.

This year's bigger crop prospects come from increased acre yields and *hope* that fewer acres will be abandoned. Last year, about 26 million acres were abandoned; this year's abandonment is estimated at 13 million acres—*still too high a figure.*

Feed-price ratios

This year's good feed-crop prospects change the outlook for pig crops and poultry. Quality corn will sell lower than in '51-52, in spite of higher price support. *Improvement in price ratios is certain to boost 1953 spring pig crop,* encourage some increase in poultry laying flocks and in broiler production.

Fewer pigs

B.A.E. estimates Cornbelt fall pig crop down 8 percent from last fall, on top of a reduction of 10 percent in last spring's crop to be marketed this fall and winter.

Fall-pig-crop estimate may be on low side, since it allows for no increase in pigs saved per litter. Fall litters in last 20 years rarely have been smaller than spring litters; in some years, the increase in fall over spring has been as much as a third of a pig per litter.

Market supplies in September may be about the same as last year. The cutback in production will show up more in the marketings during the later fall months.

More cattle

B.A.E. has firmed up estimate that cattle population will increase about 5 million head this year (in a manner of speaking, about double the increase in human population) *unless slaughter is increased substantially* this fall.

A big increase in cattle slaughter would take some of the edge off prospect for higher hog prices. Good bet is that Cornbelt feeders will take on a few more cattle for fattening and sale next winter and spring. Meanwhile, B.A.E. says that prices of fed cattle may pick up a little in early fall, but that prices of grass cattle and of lambs are more likely to decline seasonally during the usual fall period of largest marketings.

Study prices carefully before buying feeder cattle this year. Continued drouth in parts of the West may force large early shipments from those areas. Early conditions indicated feeder costs $8 to $10 per hundred poundslower than last fall.

Cornbelt farmers are becoming less dependent upon the West for their feeder cattle. They are raising more beef cattle, *and more are being produced in the states south of the Ohio River.*

Dairy

Milk production continues to lag behind 1951. Demand continues strong. Look for good markets into the fall months. Milk-feed ratios are expected to show a slight improvement during the coming months.

Trend toward handling milk in bulk tanks on farms is gaining in many areas. It is now well established in some Pacific Coast markets. Some authorities believe farm tanks for milk are practical for dairymen producing a minimum of 200 pounds daily. Although tanks are costly, many advantages are claimed. Where farm tanks are established, the milk can is rapidly becoming a nuisance piece. Many new markets will convert to tanks during 1952 and 1953.

Poultry

Storage stocks of shell and frozen eggs available for sale during the fall and winter months are well above a year ago. With current production as large as last year's, the seasonal price rise during the next 60 to 90 days will be about normal. Feeding ratios, although better than a few months ago, will continue narrow.

With more turkeys to sell and high production costs thus far, margins will be smaller than last year. Many growers will not break even. This looks to be a good year to *sell when you have a profit.* Holding for a top market looks risky.

Sheep and lambs

Aim to get native lambs fat and sold before they reach 100 pounds.

This may be a good year to start a breeding flock. You can start out with old Western ewes that, under Midwest conditions, are good for one more crop of lambs. *These are now available at much lower prices than last year.*

Oil crops

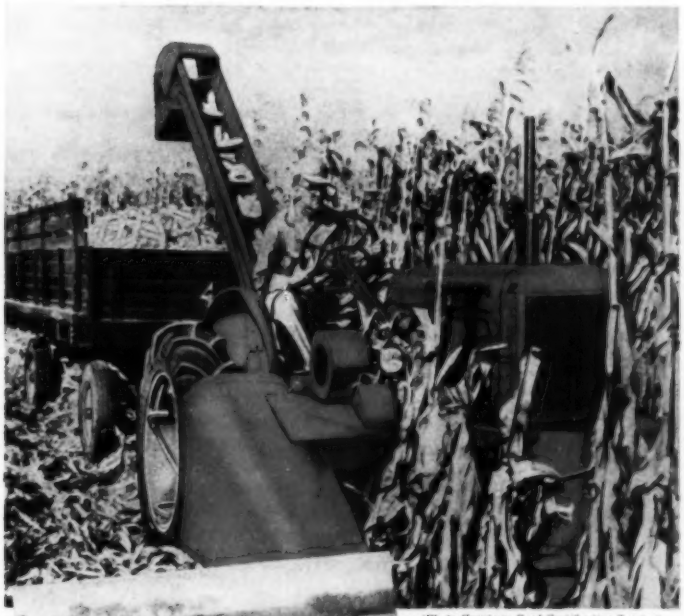
Midsummer reports give price encouragement for soybeans, cottonseed, flaxseed. Soybean crop may be a little bigger this year with less competition from a smaller crop of cottonseed. Flaxseed-crop prospect is down 16 percent from last year, promising some price relief from oversupply.

Production capacity

The "Fifth Plate" you have been hearing so much about is a "promotion piece" for continuing the A.C.P. payments. *Actually, no competent agriculturalist fears that we won't be able to produce enough for a growing population in the next 25 years.* With present resources—and a little bigger supply of farm labor—*we could boost production by more than 15 percent in the next few years.* So large an increase in excess of consumer requirements probably wouldn't pay off in the market place, short of a substantial decline in the cost of production. END

199 bushels per acre

Mister, that's Cornpicking!



(Photo Courtesy Seed Certification Service)

EASIER, SAFER with 2-CLUTCH CONTROL

An easy touch of the tractor's hand clutch stops the tractor but keeps the picking mechanism going to clear itself. A real safety feature!

It's no small trick to machine-pick corn officially weighed out at 199.4 bushels per acre. Indiana's 1951 champion corn grower, Herbert Roadruck, shows in the upper picture how he did it with his Allis-Chalmers 2-Row Corn Harvester.

Picking *two* ears where one usually grows is far beyond the normal call of duty for a picker. "I was surprised and pleased to see the Corn Harvester handle such a heavy yield," Mr. Roadruck said.

* * * *

The low-built 2-Row Corn Harvester is quickly undermounted on a WD Tractor — easy on and easy off. It's compact — has fewer working parts, hence lower upkeep.

Safer, too. The low-sloping steel and rubber husking rolls are out of danger's way. Snapping rolls are safely shielded with adjustable steel plates to prevent gouging ears.

You'll find the same down-to-earth economy and performance in the new pull-type 1-Row Corn Harvester — operated by any make of 2-plow tractor.

Both models are designed and priced for ownership on the home farm. Now you can be in the field with your own Corn Harvester the day corn is dry enough to crib.

1-row and 2-row CORN HARVESTERS

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

You get more than *whiteness* with CLOROX ...you get added health protection!

In addition to making white cottons and linens snowy-white, and brightening fast colors, Clorox makes linens sanitary, too...safer for family health. No other home laundering product equals Clorox in germ-killing efficiency!

And Clorox does more than bleach your linens and make them sanitary. It also removes stains and deodorizes. Plus all this, Clorox is free from caustic... extra gentle... made by an exclusive, patented formula. So, to conserve linens... to protect health... use Clorox every washday!

And CLOROX safeguards health in routine cleaning, too!

Yes, Clorox safeguards health when used in routine cleaning of drainboards, sinks, basins, tubs, toilet bowls. For besides removing stains and deodorizing, Clorox disinfects... provides a type of disinfection recommended by public health authorities! Directions on label.

CLOROX
America's Favorite
BLEACH & HOUSEHOLD DISINFECTANT

When it's CLOROX-clean... it's SAFER for Family Health!

Friend to Friend

Jobs cost money

How much does it cost you to provide one man one job on your farm? Industry points with both pride and concern to the fact that it must place $8,400 in money or some form of capital back of each employee, no matter how humble. According to Herschel Newsom, master of The National Grange, the corresponding cost on the farm is $18,500!

Today there is too wide a gap between tested new farming methods and their general application. Soil conservation is a classic example. We must bring unproductive land into use to supply our rising needs for food. All this costs money—just as modern machinery and farm electrification have cost a lot of it. Grassland farming will step up the necessary investment in grazing animals, shelters, and feed storage.

I am unable to see where this vast new capital is going to be raised. Certainly not from present farm profits. But it will be found. My concern is for the amount of skill that must be used in handling so much money. Most farmers lack the experience, colleges have practically no research work on the fire, nor can you find books on so new a subject. And I doubt if bankers generally have the knowledge or skill to supervise loans for fertilizer and soil conservation. The need for capital is told in the following letter:

Dear Editor:

"Your editorial in this issue of *Successful Farming* (July), on conservation and the article in the previous issue on wasted man-hours are very interesting. But there will be small practical results from action that leaves the practical operator likely to go *broke*. A high percentage of successes looks good on paper. But it means *nothing* to the fellow who loses his all on *one* try.

"The production of my 400-acre farm probably could be doubled with full conservation practices, improved grasses, fertilization, and some equipment. Naturally I would like very much to do these things and get the greater returns. But lack of capital forbids. And borrowing at the bank exposes me to too great a risk. But it could be done in either of two ways.

"I owe on my place about *one-third* of its market value. And the Federal Land Bank will loan no more than that. A loan of *two-thirds* of the value of the place would enable me to do these things and pay the loan more surely than the one I have now. The government loans *full* purchase price to some people. Why should it penalize the farm operator who lacks capital enough to buy a farm of practical size and pay for needed equipment, fertilizer, and conservation work?

"Another way. If the government would advance the cost of fertilizer and conservation work and take its pay plus 25 percent out of the crop *increase*, I would be glad to cooperate because a crop failure would not bankrupt me. And the government's 25-percent profit would protect its *average* income.

"Any plans for conservation or new jobs for the people that certainly need them must protect the individual taking part in them from going broke because of the plans. If this condition is not met, so few people will take part in them that the plans will have little practical value."

John Reed, Kay County, Oklahoma

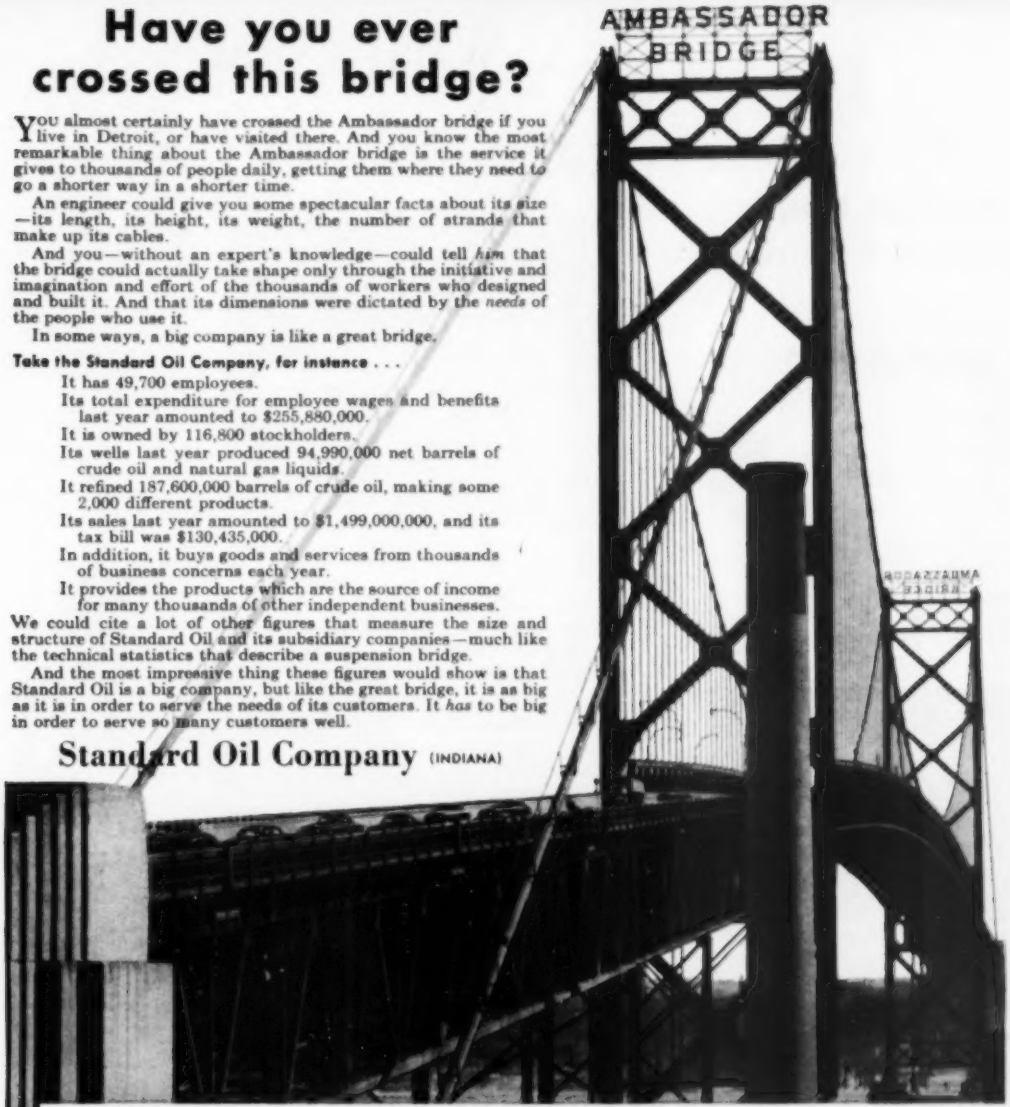
The show ring on trial

Can intelligent selections and breed progress be made by selecting bulls and replacement cows in their "work clothes" or must they be heavily fitted as is usually done with show or sale animals? This is no new question for which we still lack a scientific answer. A 10-year study at Washington State College in which hogs are being used to save time has now passed the halfway mark. Alan Rogers, a member of the board of regents, believes the results will apply to all classes of animals.

Twenty-five slim-fed sows get 70 percent of the ration given to 25 liberally fed sows. They go to bed hungry. After each group of sows and their progeny have been on their assigned rations for five generations, half will be switched to the other ration for two generations. Rogers predicts this experiment will be a livestock classic when finished. He does not imply the elimination of the show ring but a sharp change in methods. Eventually, breeders may prefer to buy their replacements in "working clothes" at work in pastures and feedlots.

Dave Fox

Have you ever crossed this bridge?



You almost certainly have crossed the Ambassador bridge if you live in Detroit, or have visited there. And you know the most remarkable thing about the Ambassador bridge is the service it gives to thousands of people daily, getting them where they need to go a shorter way in a shorter time.

An engineer could give you some spectacular facts about its size—its length, its height, its weight, the number of strands that make up its cables.

And you—without an expert's knowledge—could tell *him* that the bridge could actually take shape only through the initiative and imagination and effort of the thousands of workers who designed and built it. And that its dimensions were dictated by the *needs* of the people who use it.

In some ways, a big company is like a great bridge.

Take the Standard Oil Company, for instance . . .

It has 49,700 employees.

Its total expenditure for employee wages and benefits last year amounted to $255,880,000.

It is owned by 116,800 stockholders.

Its wells last year produced 94,990,000 net barrels of crude oil and natural gas liquids.

It refined 187,600,000 barrels of crude oil, making some 2,000 different products.

Its sales last year amounted to $1,499,000,000, and its tax bill was $130,435,000.

In addition, it buys goods and services from thousands of business concerns each year.

It provides the products which are the source of income for many thousands of other independent businesses.

We could cite a lot of other figures that measure the size and structure of Standard Oil and its subsidiary companies—much like the technical statistics that describe a suspension bridge.

And the most impressive thing these figures would show is that Standard Oil is a big company, but like the great bridge, it is as big as it is in order to serve the needs of its customers. It *has* to be big in order to serve so many customers well.

Standard Oil Company (INDIANA)

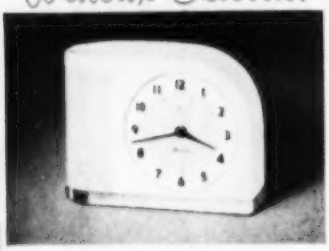
A BIG COMPANY depends upon the many, many people who work for it. Each of the 49,700 employees of Standard Oil, like L. L. Noel of our Neodesha, Kansas, refinery, are backed by an average investment of $31,400 in tools and equipment. This is largely made possible by the fact that in recent years two-thirds of our profits have been plowed back into the business. Such backing helps our employees to earn good wages and enjoy the security of steady work.

A BIG COMPANY is owned by many, many people. Among Standard Oil's 116,800 stockholder-owners is Miss Lottie Klandrud, La Crosse, Wisconsin, business woman who has owned Standard Oil stock for more than twenty years. No one individual owns so much as 1% of our stock. No one of the institutional owners—including many educational institutions and charitable organizations—owns so much as 4%. Standard Oil has paid dividends for 59 consecutive years.

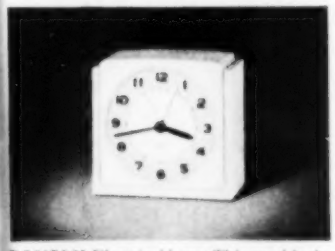
A BIG COMPANY must satisfy millions of customers in the cities, towns and farms throughout our territory. Among them are customers like H. F. Voigts of Lenexa, Kansas, who is a regular customer of Ed Gast, one of the thousands of Standard Oil agents. Through the friendly and dependable service of our agents, we supply our customers' needs with products—priced surprisingly low—that they can rely on for highest quality today, and tomorrow.

tireless hands around the farm

Westclox Electrics



MOONBEAM Electric Alarm. Calls you *silently*. His first call is a blinking light; later joined by audible alarm. $9.95. With luminous dial, he's one dollar more.



BANTAM Electric Alarm. This good-looking little chap is only 3½ inches high. Clear-toned bell alarm has cheerful call. $4.35. With luminous dial, he's $5.00.

ORB Electric Wall Clock. Neat and handsome. Easy-to-read dial. Metal case is easy to keep clean. Four color choices—ivory, white, red or yellow. Only $4.35.

Prices quoted do not include tax and are subject to change

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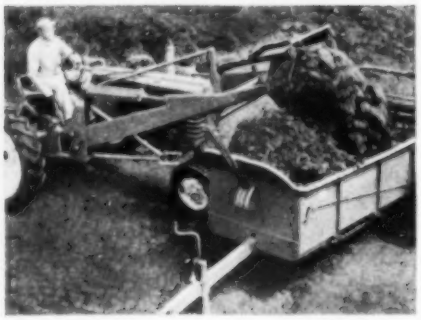
PRODUCTS OF GT GENERAL TIME CORPORATION

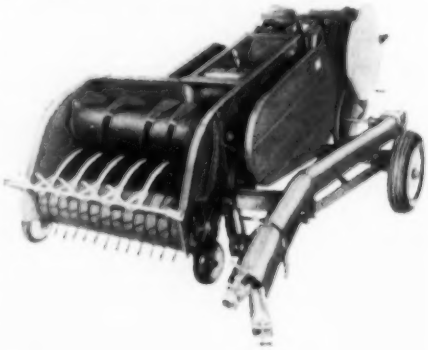
What's new *in farming*®

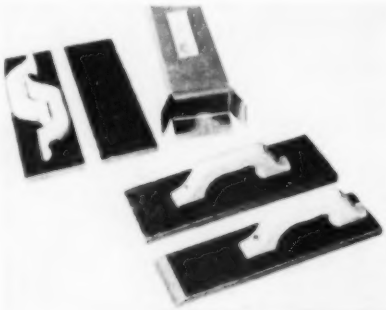
Tips you can use today



Manure loader. This new loader is powered from the continuous-running hydraulic system of the tractor. The live power is said to reduce the operator's effort at least 40 percent by saving a minimum of two gearshifts and two clutchings on every bucket of manure. The loader has a two-speed bucket boom lift, quick-penetrating spring-steel bucket teeth.—*John Deere, Moline, Illinois.*

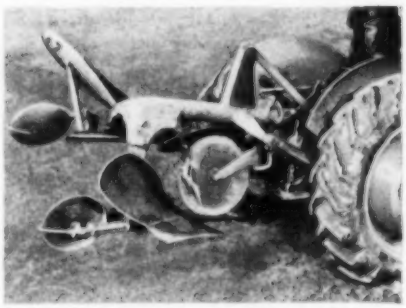
Wire-tie baler. An exclusive new plunger design is said to be one of the features of this baler. The baler is offered with either mounted engine or standard take-off. The baler has a top feed, an inclined bale chamber, and chute extension for easy loading onto a trailing wagon. The plunger is pulled by two connecting rods attached outside the bale chamber.—*New Idea Farm Equipment Co., Coldwater, Ohio.*





Cement float. Perfected to do a better job than the usual handmade wooden float, this float is also said to last much longer. Several cement finishers, during the testing, reported having used the tool on more than 100,000 square feet of concrete without signs of its wearing out. The float is ½" thick and 3½" wide. One end is slightly beveled for picking up wet concrete.—*Harris, Inc., 200 E. Long St., Columbus 15, Ohio.*

A two-way plow. This tractor-mounted two-way plow has a single bottom. The implement permits the farmer to plow on the contour, and to turn furrows uphill without extra trips back and forth across the plowing area. The plow will operate at depths up to 1'. Each of the 18" plow bases is designed to turn under trash or green manure.—*Harry Ferguson, Inc., Detroit 11, Michigan.*



Pick of the 1/2-ton pickups!

You're "some punkins" when you own an International pickup . . . you're driving the "pick of 'em all"!

Just to feel its smooth power and instant responsiveness is a thrill. Its economy and stamina will keep you happy. So will its low maintenance costs and fewer repair bills. It's a tough truck that rides and handles easily, a credit to the family that's been building better farm equipment for over a century.

So, ask your International Dealer or Branch to let you drive an International pickup. You'll never be satisfied with less.

Look for these International pickup truck exclusives—

- Valve-in-head truck engines, designed exclusively for truck work, developed and built in the world's largest exclusive truck engine factory.
- The "roomiest, most comfortable cab on the road"—the Comfo-Vision Cab—designed *by* drivers *for* drivers.
- Super-steering system—more positive steering control, easier handling. 37° turning angle for greater maneuverability.
- Nine models—½, ¾, and 1-ton sizes with gross vehicle weight ratings from 4,200 to 8,600 lbs., 6½, 8 and 9-ft. bodies. 115, 127 and 134-in. wheelbases.
- The traditional truck toughness that has kept International first in heavy-duty truck sales for 20 straight years.
- America's largest exclusive truck service organization.

INTERNATIONAL HARVESTER COMPANY • CHICAGO

International Harvester Builds McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Industrial Power . . . Refrigerators and Freezers

INTERNATIONAL TRUCKS

International pickups available in 9 models with 6½, 8, and 9-ft. bodies, 4,200 to 8,600 lbs. GVW.

Don't be without this Ray-O-Vac 2-cell flashlight. Precision-built. Brilliant, wide-angle beam.

they stay fresh–

. . . they *keep* fresh for years when not in use . . . always ready for instant action in any emergency—because they're *sealed in steel.* When we say "Light when you need it," we really *mean* it. Always, get genuine Ray-O-Vac Leakproofs—the only flashlight batteries that give you . . .

Each Battery Carries This Guarantee: "If your flashlight is damaged by corrosion, leakage or swelling of this battery, send it to us with the batteries and we will give you FREE a new, comparable flashlight with batteries."

Only genuine Ray-O-Vac Leakproofs are *sealed in steel!*

1. Steel top
2. Multi-ply insulation
3. Steel jacket
4. Steel bottom

Buy Spares – they stay fresh!

© 1952 BY RAY-O-VAC COMPANY, MADISON, WIS. RAY-O-VAC CANADA, LTD., WINNIPEG, MAN.

Latest "know-how" in foods

Your market basket of new products, ideas, research

Unwrap fresh meat as soon as you get it home from the store. Then, top it lightly with a sheet of waxed paper and place in the coldest part of your refrigerator. But cooked meat is a different story. It should be tightly wrapped or placed in a refrigerator dish before being stored in the refrigerator.

Six out of 10 old people have poor food habits. Studies at the Jefferson Medical College in Philadelphia show that the common mistakes are too many sweets, too much fat, not enough meat, milk, and eggs, and not enough vitamins.

Iron helps build healthy, red blood. A lack of iron causes that common condition, anemia. This leaves you with a general tired and listless feeling that can be overcome by including iron-rich foods in your diet. Liver is the best source of iron. Include it in your family's meals once a week. Other variety meats, such as kidneys and heart, also give good amounts of iron. Eggs, molasses, and dried fruits are other sources to consider.

There are no fattening foods, says the extension nutritionist at Ohio State University. It's the total of all the food you eat that determines your weight. Such foods as salad dressings, cream, gravy, candy, and cake tend to fill you up so that you neglect the good-for-you foods like vegetables, fruits, milk, and meat. If you satisfy your hunger only from these high-calorie foods, you'll eat more than you really need—and you'll gain weight.

Remember the Basic 7 food pattern: green and yellow vegetables; citrus fruits and tomatoes; other fruits and vegetables; milk and other dairy products; meat, eggs, fish, and nuts; cereals; and fats. Eat something from each of these groups every day and you won't crave the rich, sweet foods that are loaded with calories.

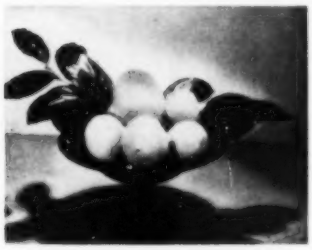
More milk needed. Studies of the diets of over 400 pregnant farm women in the Midwest show them sadly lacking in protein, calcium, and riboflavin. Milk is especially rich in all these nutrients. Those who made the study suggest that a quart of milk a day would be of greater dietary benefit than any other single food for the pregnant woman. It would have a lasting effect on the well-being of the mother and on the health of the baby. **END**

Vegetables add table *glamour*

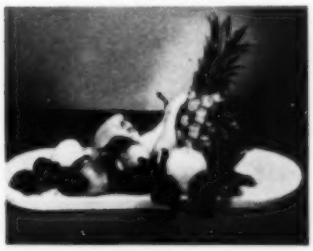
Everyday vegetables can be just as glamorous on your table as choice greenhouse flowers. The glossy purple of eggplants, dull green shape of artichokes, and brilliant colors of peppers are naturally beautiful shades and shapes that lend themselves to arrangements.

Display them in the common objects you use in daily life, and don't be afraid to combine the vegetables with your favorite house plants for a touch of graceful greenery.

Rooted arrowhead plant in small bottle is hidden behind the artichokes and peppers in this arrangement. Cut pepper in foreground adds interest to pattern as does the weave in basket used as the container



Substitute brightly colored lemons, limes, or oranges for candy and nuts you usually put in your best glass compote. Crisp lemon leaves or sprigs of house-plant greenery add freshness and graceful lines to the fruit



Arrange different fruits and vegetables on piece of polished wood such as a breadboard. Insert philodendron vine in slashes in apple; it will stay green for weeks. Make arrangement of any vegetables you have

NEW! Coolerator double-oven range brings you all the joys of electric cooking!

5 Way Automatic Control—Both ovens, the deep-well cooker, the giant surface unit, and the appliance outlet can be set to turn themselves on and off.

7 Heat Push-A-Button Color-Guide Cooking—Each surface unit has 7 heats, each with the push of a different colored button—from a fast french fry to a low simmer.

Magic Well-E-Vator—It's a thrifty deep well cooker, it's a fast french fryer! And it lifts up at the touch of a lever, to become a giant 2100 watt 7 speed surface unit!

Double-Oven Cooking—You can broil a steak at charcoal heat in one oven—and bake an angel food cake in the other! Radiant-wall heat gives you 25% more space.

Hotter Heat (Cooler Kitchens)—Super speed surface units bring liquids to a boil faster than ever! Electric cooking is cooler, cleaner, safer.

Here's the range that really cuts you loose from your apron strings, free from your kitchen—the Coolerator! It will have coffee ready when you wake up, cook dinner while you're out, bake a cake while you nap! It's the most completely automatic range you can buy! It's the fastest, the cleanest, the coolest, the *easiest* way to cook! And so economical—temperatures tailored to the cooking job save current, save vitamins, keep meats from shrinking. Read about every feature, to get a complete idea of this cooking marvel—and see it at your Coolerator Dealer's now!

HOW TO BE A PART-TIME HOUSEWIFE

Send for free booklet with dozens of ideas to save you time, work and money—use the coupon now! Name of your dealer on request.

SF-92

THE COOLERATOR COMPANY
Duluth 1, Minn.

Please send me "How to be a Part-Time Housewife." Also the name of nearest Coolerator dealer.

Name_____

Address_____

City_____ State_____

Your Home Deserves the Finest—Choose

Coolerator

ELECTRIC REFRIGERATORS • RANGES • FREEZERS

B.F.Goodrich

tires save time all around the farm for the Pickens family

JOHN O. PICKENS farms 414 acres near Hoytville, Ohio. His fields of corn, beans, alfalfa and oats spread over Hancock, Putnam and Henry counties in the center of this rich northwest-Ohio agricultural area.

Here farming is a family affair. As soon as the three Pickens boys could see over the steering wheel, they learned to run a tractor—today help run all the farm equipment including 5 tractors, 2 corn pickers, a self-propelled combine, a 9-ton truck with special hydraulic lift partly designed by John Pickens, and 18 other implements.

To get the extra traction he needs in the heavy black soil on this farm, Pickens uses B. F. Goodrich Power-Curve tractor tires. "They pulled me out of a greasy alfalfa field without slipping," he commented, adding, "I notice these tires clean fine and give a really smooth ride over rough ground. The hard nose of each cleat stays firm and really bites in." That's why every turn of a Power-Curve tire counts—why you work faster and save fuel.

BFG tires have rounded profile

Tractor tires that have a flat profile tend to push the soil ahead. Penetration actually is restricted. But Power-Curve tires are built like a round-edge spade—with husky cleats rounded across the entire width of the tread. Result: Power-Curve tires take a clean, sharp bite into the soil, penetrate better and give full shoulder-to-shoulder traction in reverse or forward.

Dick Pickens gets advice on dressing a field from his father. The tractor rolls on Power-Curve rears and "Easy Steer" front tires that "steer better than any tire I've used," says Mr. Pickens.

Tapered Power-Curve cleats dig deeper because they are higher in the center than those of the other leading makes. You get greater drawbar-pull and the extra rubber means Power-Curve tires wear longer. No wonder Mr. Pickens says, "Power-Curve tires give me better service than any tractor tires I've ever used. Save time."

John Pickens carries his preference for B. F. Goodrich to his truck tires. Recently his BFG tires pulled a 24-ton load from a field so soft the differential touched the soil. "Yet those tires didn't slip a bit," he reports.

"The end of my tire troubles"

So says John Pickens about his B. F. Goodrich Tubeless Tires that seal punctures, protect against blowouts. New "Life-Saver" Tubeless Tires also defy skids. Thousands of tiny "grip-blocks" stop you in as much as 20% less distance, give you as much as 40% more pulling power. Here's greater safety and comfort—and the "Life-Saver" outwears other passenger tires!

You, too, can enjoy the extra power and safety of B. F. Goodrich tires. Your BFG retailer will show you how to cut tire costs and get better service. Look for his name under Tires in the Yellow Pages of your telephone book. *The B. F. Goodrich Co., Akron, Ohio.*

Bob and Jack Pickens fill their tractor with gas at the start of the day. B. F. Goodrich Power-Curve tires have self-cleaning open center tread.

Mildred Pickens gets ready to drive into Hoytville on B. F. Goodrich Tubeless Tires. Her husband says that they are "the best tires I've ever had".

Helping John Pickens load fertilizer on his truck are sons Jack and Bob. Daughter Marilyn watches. Mr. Pickens is an agent for two fertilizer companies.

Come see for yourself

Successful Farming ***Field Day at Research Acres near Bloomington, Illinois, Saturday, September 27—see and hear more about "Make Corn Your Nurse Crop"***

Everything to date on the promising new practice of seeding an intercrop in wide rows of corn will be presented—machinery, seeding mixtures, best dates of seeding, width of corn rows, corn-yield comparisons, rotation possibilities, results of college and private tests, and farmer experiences. You will recall the March, 1952, *Successful Farming* article, "Make Corn Your Nurse Crop," in which this was discussed.

The tremendous possibilities of this practice have prompted us to hold this *Successful Farming* Field Day at Research Acres, near Bloomington, Illinois. Here extensive tests of this system have been carried on for two years under the direction of the research staff of Funk Brothers Seed Company, of Bloomington.

At Research Acres you shall see: corn planted in 60- and 80-inch rows with legumes and grasses seeded in the rows. Legumes seeded in wide rows at three different times. A large number of different grasses and legumes being tested in wide-row corn, including alfalfa, Ladino clover, red clover, bromegrass, orchard grass, and others. The remarkable stands of legumes and grasses which were seeded in last year's wide-row tests. Corn planted with an experimental mulch planter; the ground will have been gone over only twice. One field of 120 acres of wide-row corn seeded to a legume-grass mixture. And a display of equipment used in seeding these tests.

Wider corn rows may be the answer to the problem which has long plagued farmers, that of how successfully to establish a legume, grass, or small grain in corn. With wider rows, it appears that a better seedbed can be prepared, and weed control is possible, as small conventional tractors can operate in the row and competition for moisture appears to be lessened.

Two interesting opportunities presented by this system are: the elimination of a small-grain nurse crop, thus making it possible to go directly from corn to pasture or hay, and the possibility of growing continuous corn with a green-manure crop every year.

Of course, there are many other advantages of cover crops in corn:

1. Erosion protection needed on the rolling land during the winter months. 2. Legume cover crops fix nitrogen. 3. Cover crops produce organic matter. 4. There is a possibility of some fall pasture.

There is a lot to do in one afternoon. The program will begin at 12 noon (Central Standard Time) with a direct report by Everett Mitchell on the National Farm and Home Hour from the Field Day site. Eat lunch before you come or bring a sack lunch. Overnight accommodations available in Bloomington are the Illinois, Rogers, and Tildon-Hall hotels, and Streids and Rusk-Haven tourist courts. If you plan to fly, please drop us a card so that transportation from the Bloomington Airport to Research Acres can be arranged for you.

Here's how to get there

Go 7 miles southwest of Bloomington, Illinois, on U. S. Route 66, to Shirley, Illinois. Research Acres is 2 miles straight south from there. Signs will direct you from Route 66. Get up a carload of your neighbors and come.

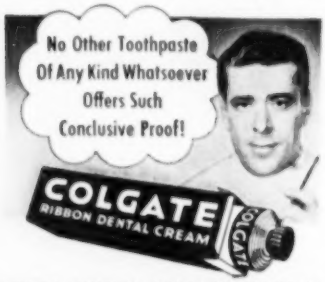
Seeding legume-grass in 60-inch-wide rows with an experimental seeder at Research Acres. Other plots will show different seeding times, other legumes and grasses, different row widths, mulch-planted corn, and the seedings made a year ago

Brushing Teeth Right After Eating with
COLGATE DENTAL CREAM
STOPS BAD BREATH AND STOPS DECAY BEST!

Colgate's Instantly Stops Bad Breath In 7 Out of 10 Cases That Originate in the Mouth!

It cleans your breath while it cleans your teeth! Brushing teeth right after eating with Colgate Dental Cream gives you a *clean, fresh* mouth *all day long!* Scientific tests *prove* in 7 out of 10 cases, Colgate's *instantly* stops bad breath that originates in the mouth. No other toothpaste has proved so completely it stops bad breath. No other cleans teeth more effectively, yet so safely!

Yes, the best way is the Colgate way! In fact, brushing teeth with Colgate Dental Cream right after eating is the most thoroughly proved and accepted home method of oral hygiene known today. The Colgate way stopped *more* decay for *more* people than ever before reported in dentifrice history! Yes, to help stop bad breath and tooth decay at the same time, the *best* way is the *Colgate* way!



PURE, WHITE, SAFE COLGATE'S WILL NOT STAIN OR DISCOLOR!

The farmer's Washington

By Richard Wilson

- **Will Republicans win farm confidence?**
- **Grain-storage issue not dead**
- **Few changes for price-support program**

Farm problem, No. 1. A few Republican governors went through an uncomfortable 15 minutes when they visited General Eisenhower in Denver before the nomination.

They held a press conference, and a brash reporter asked the following question: "What makes you think General Eisenhower can win back the confidence of farmers in the Republican Party?"

A good deal of hemming and hawing, and then a little heated oratory came from the governors. They said they were for the present program, on the whole, and that it really was a Republican program sponsored by Senator Aiken of Vermont. They declared the farm vote went Democratic because of a fraudulent campaign made by the Democrats in 1948.

But they didn't answer the question. Later, Senator James Duff of Pennsylvania, who has a host of high-grade farmers in his state, was asked the very same question. He huffed and puffed; finally conceded this was a very weak spot in Republican armor.

And so it is. General Eisenhower has as one of his major goals trying to strengthen that armor. (For the general's own answer to this question—as well as the Democratic view on the same problem—read the candidates' answers to the questions of *Successful Farming* readers, coming in October.)

Confidence. The Republicans adopted a platform calling for "full parity" for agriculture, and attacking the attempt of the administration to get partisan political control of the farmers. A Democratic platform was not much different. And the truth of the matter is that the campaigners of both parties are finally admitting that there is no great difference between the two parties on an over-all program.

It is a matter of confidence on the part of the farmers in the Republican or Democratic parties. Behind the scenes, the thoughtful farm politicians will admit that the real issue is whether there is to be a farm deflation. But neither party is willing to meet that issue, and for good and sufficient reasons.

The suspicion seems to persist that Republicans somehow or another will take deflationary steps, and that the Democrats won't. Eisenhower's problem is to convince farmers the Republicans will have a reasonable farm program, without the irritations which have piled up for 20 years, and without a deflation in prices.

This problem ties in with the whole economy. For, the larger question is: "Can we have peace without having a depression?"

Strangely enough, the man likely to have an important effect on Eisenhower in the farm field will be Governor Thomas E. Dewey, one of the few Eastern leaders who understands the over-all program. Dewey, it can be related here, will urge Eisenhower to announce for a 90-percent-of-parity goal.

Grain storage. Congressional leaders have decided to watchdog Secretary Brannan on the grain-storage program. They aren't satisfied with his assurance that the mess has been cleaned up. They plan another going over of the entire storage program when Congress meets again in January.

Few changes. Farmers can count on the same pattern of price supports for the coming year as a result of Congressional action. In fact, the Congress which has just closed did little to change materially the general farm program. A 90-percent guaranty was continued through 1954 for the principal commodities.

Funds voted for agricultural conservation payments amounted to $251,754,142. The Senate increased the amount approved by the House by $1,754,142. That figure was added to increase pay for county employees of the P.M.A.

The bill also increased by $10 million the funds for stimulation of the production of some farm products. Total allotted for conservation programs this year was $24,725,858 less than appropriated last year. The Farm Bureau and The Grange had favored a $100-million cut.

No storage issue. Democrats probably won't have this fall the issue which helped them win the presidential election in 1948.

Even Agriculture Secretary Brannan is willing to admit this. He said the storage space this fall for corn and wheat will be adequate. Unlike 1948, farmers will be able to store their surplus and be as-

[*Turn to page 18*

With ANTIBIOTIC and B_{12}

SPARX now available in dry and condensed form, makes it safe and practical for you to take pigs from the sow at *any age!* Gives you the wonderful laboratory results you've heard about right on your own farm—without special equipment . . . at low cost . . . with little extra work!

Start your pigs on Dry Sparx, especially made for very young pigs, anytime that sow's milk is lacking from the 2nd day up to the 4th week. Use Condensed Sparx from the 4th week to supplement sow's milk before weaning, replace it after weaning to avoid weaning setbacks. Sparx can help you save extra pigs—even entire litters—wean them up to 50% heavier than the national average, have 75 to 90 lb. shoats in 90 days! Get a box, drum or barrel of Sparx from your feed dealer today. Complete feeding directions and measuring cup in each box. Save more Fall pigs to boost your hog profits!

Practical and Profitable to Feed at Any Age!

NO SPECIAL EQUIPMENT NEEDED!

This litter was removed from the sow on the 2nd day. When they had their picture taken on the 10th day, they weighed 8 lbs. By usual weaning time (8 weeks), they had grown to a strapping 47½ lbs.! Proof positive that you can raise a litter of pigs without the sow, save orphan pigs and runts from over-size litters!

Don't want to waste your sow's milk? Then keep your normal litters with the sow to the second or third week and then start Dry Sparx. Sows hold weight, gilts continue growing and can be bred third week after farrowing. This litter put on Dry Sparx at 10 days, weighed in at 387 lbs. at 8 weeks.

This is the age to switch pigs to condensed Sparx (whether raised on sow's milk or dry Sparx). Recommended especially for big litters, late pigs, or for early weaning to re-breed on 2-litter schedule. This 4-week litter more than doubled their weight in the next 4 weeks without a weaning setback!

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Division Offices: Princeton, N. J., Des Moines, Ia., Sacramento, Calif. Makers of Semi-Solid Buttermilk, Semi-Solid Emulsions and Kaff-A.

ideas for the Farm

(for more information on ideas discussed here, see bottom of right column)

Bright roof preserver. One coat of asphalt-aluminum costs little, lasts a long time, and has the extra advantage of reflecting summer heat—important in keeping livestock healthier. Use it on rolled asphalt or rustable metal roofs. And when you buy, look for the Warranty Seal that assures the right amount and grade of aluminum pigment in the right vehicle. Ask your dealer for his "Warranty" brand. Folder available.

Moving day comes regularly with your portable hog houses, chicken shelters, etc. They're much easier to move if built with aluminum roofing and siding. Yet this lighter metal has the solid strength you

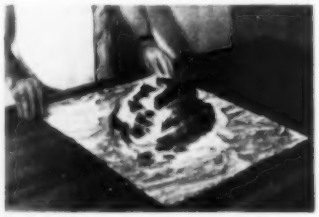
want on big barns, too. Wherever you use aluminum you can depend on lowest maintenance—no painting. Your poultry and livestock will be healthier because it's cooler under aluminum. Ask your dealer for Reynolds *Lifetime* Aluminum Corrugated and 5-V Crimp. Folder on request.

Pasturage is a money crop if you count the cost of supplemental feed. To cut that cost, use a portable irrigation system. Pastures stay green from early spring to late fall. One test shows cows get 35% more grazing, produce 35% more milk. Portable irrigation systems extend the growing season of all crops. When you buy, insist on strong, rust-proof Reynolds Aluminum pipe . . . weighs only 16 lbs. per 20 ft. length. Illustrated 12-page folder on irrigation sent on request.

Turn off the heat is just what you want to do to keep milk or egg production up in summer, put weight on hogs. And that's just what you do with Reynolds Aluminum Reflective Insulation, tacked or stapled under roofs and inside walls of barns, poultry houses, hog shelters—or

your own home. Aluminum foil on kraft paper, it reflects up to 95% of radiant heat. 250 sq. ft. in one 15-lb. roll. See your dealer. Ask for free folder.

Locker Plant Operators know the best way to wrap foods for freezing. They do it quickly, with no taping or tying, because they use Reynolds Aluminum



Locker Wrap. These experts will tell you the end-result is better . . . preserves flavor, reduces shrinkage. Cannot absorb juices or stick to product. Economical. Insist on this aluminum foil in your freezing. Illustrated folder on request.

Military requirements for aluminum affect total supply of these products. But production capacity is expanding. Keep asking your dealer.

FARM INSTITUTE

Reynolds Farm Institute,
Box 1800-B2,
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Please send literature on: Irrigation ☐; Locker Wrap ☐; Insulation ☐; Roof Coating ☐; Corrugated ☐; 5-V Crimp ☐.

Name.....

Address.....

Farmer's Washington

From page 16

sured of the 90-percent-of-parity price.

This has led some observers to say Brannan would rather fight out the 1952 election on the issues of 1948. He has just issued a 25-page document refuting the contention of Thomas E. Dewey that the administration deliberately forced down the price of corn just before the 1948 election. The fall came because of big crops, he insists, and when livestock numbers were at their lowest level.

Notes: Best bet for secretary of agriculture in an Eisenhower administration: Representative Clifford Hope of Kansas. When Truman campaigns for the Democratic ticket this fall, he will concentrate hard on selling the farmers that the Republicans will betray them. Best bet for secretary of agriculture in a new Democratic administration: NOT Brannan. Next new program to be proposed by Democrats: a plan to better the lot of 1 million migratory farm workers. **END**

You can cut wind damage

Every year many barns and other farm buildings are damaged by high winds. Much of this loss can be prevented by better construction methods.

Contrary to common opinion, forces exerted by wind are lifting in character. Therefore, particular attention should be given to proper anchorage and bracing. Following are some suggestions for improving either new construction or existing buildings:

1. Securely anchor all buildings to their foundation. Use ½-inch bolts, imbedding them at least 6 inches in the foundation. Don't spare the bolts; space them at regular intervals around the foundation.

2. Use plenty of diagonal bracing in the wall construction. Don't use short pieces of 2x4s between the studs. A solid 1x4 or 1x6 running diagonally between the plate and sill and notched or "let" into the studs is best. Make use of knee braces from joist to stud under the floor.

3. Tie the rafters to the plate with special fasteners or knee braces between rafters and studs.

4. Don't splice sheathing boards at the same place in line up and down the wall—stagger the joints to give greater strength.

In addition, give some thought to the building site. Take advantage of any natural windbreaks of terrain or trees that might be available. **END**

ANNOUNCING

THE WORLD'S GREATEST FARM TIRE VALUE!

THE New Firestone

GROUND GRIP OPEN CENTER TRACTOR TIRE

Now Only 74.20

Plus Tax

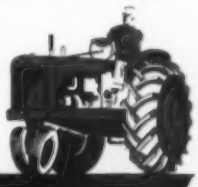
Size 10-38

Other Sizes Proportionately Low

And here's why you get more for your money with these tires:

- **Two extra tread plies give extra protection against impact breaks.**
- **Flared tread openings insure positive flexing and cleaning in all types of soil . . . won't plug at shoulders.**
- **Double-thick tread base at center bar ends eliminates possibility of bar ends punching through body.**
- **Tapered bar construction gives a sharp bite at center and maximum penetration at shoulder for greater traction.**

Let your nearby Firestone Dealer or Store show you all the many other work-saving, money-saving advantages of this amazing new tractor tire. Compare before you buy . . . no other tractor tire gives so much for so low a price.



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"PRINCE ALBERT IS A COOL, MILD SMOKE—IT'S A RICH, FLAVORFUL ONE, TOO!"

George Morgan

Young ballad singer and "Grand Ole Opry" star

THE NATIONAL JOY SMOKE

Prince Albert's patented* "No-Bite" process means real pipe-smoking enjoyment with every puff!

*Process patented July 30, 1907

Bite's Out Pleasure's In—

There's more tobacco in every Tin!

CIGARETTES ROLLED WITH CRIMP CUT P.A. SHAPE UP FIRM AND TRIM WITHOUT SPILLING!

R. J. Reynolds Tobacco Company
Winston-Salem, N. C.

IF YOU ROLL YOUR OWN, you'll enjoy Prince Albert's choice tobacco in a "makin's" cigarette. P.A. clings to the paper, doesn't dribble out the ends. Get Prince Albert today!

William J. Quinn

TUNE IN "GRAND OLE OPRY", SATURDAY NIGHTS ON NBC

MORE MEN SMOKE

PRINCE ALBERT

THAN ANY OTHER TOBACCO

Books

for your pleasure and profit

By Robert West Howard

Peace or war, the farm spins out the cycle of its year. And year by year the tempos of production increase, scientific applications become more exacting, isolation becomes less possible, and family life assumes new complexities.

Even the pigs are changing—there are two new books about them. **Raising Swine** by Dr. George P. Deyoe of the University of Illinois and Dr. J. L. Krider, director of feed research for the McMillen Feed Mills (McGraw-Hill Book Co., Inc., 330 W. 42nd St., New York 18, New York, 447 pages, $4.50) is the latest addition to the McGraw-Hill Rural Activities series. According to pork producers who have used the book, it summarizes latest methods.

Pork Production by William W. Smith of Purdue's Animal Husbandry Department (The MacMillan Co., 60 Fifth Ave., New York 11, New York, 616 pages, $5.50) is out in a third edition. It contains a chapter on "Sanitation and Disease Control" by Dr. L. M. Hutchings, chief veterinarian of Purdue's Experiment Station, as well as a chapter on "Food Deficiencies of the Cereal Grains."

Hunting seasons are changing, too, what with new state regulations and the huge increase in hunters. **The Official Hunting Book,** edited by Charles R. Jacobs (Crown Publishers, 419 Fourth Ave., New York 16, New York, $1.50) is an important book for sportsmen. Its 160 pages, well illustrated, describe the habits of game animals and birds available in the United States and Canada, and contain summaries of state and federal game laws. There are good chapters, too, on crow hunting, destructive owls and hawks, game cooking, trapshooting.

This is the time of year to set about plans for perennial beds of the wildflowers Nature has put on our continent. You'll get lots of help from **Wildflowers for Your Garden** edited by Helen S. Hull (M. Barrows & Co., 114 E. 32nd St., New York 16, New York, $4.95). Mrs. Hull, former president of the National Council of State Garden Clubs, tells how to grow 50 of our best-known wildflowers. There are also chapters on wildflower favorites in each of the 48 states.

A pocket guide on the same subject is **How to Know the Wildflowers** by Alfred M. Stefferud (Mentor Books, 501

[*Turn to page 22*

Let's get down to "brass tacks" and the PLAIN HARD FACTS

(Continuation of standard equipment and trim illustrated is dependent on availability of material.)

Here's why a Chevrolet truck means dollars-and-cents savings!

Size up the plain hard facts, and see for yourself why a Chevrolet truck cuts down your hauling or delivery costs on any farm job.

With all its savings, a Chevrolet truck is powerful, dependable and easy to handle on or off the road. Easier Ball-Gear Steering. Fast, quiet Synchro-Mesh transmission that eliminates double clutching. Smooth, easy-acting clutch. Roomy cabs with five feet of hip room, ventipane windows, and seats with double-deck springs.

They're great trucks on the farm . . . and they save you plenty. Talk it over with your Chevrolet dealer. Chevrolet Division of General Motors, Detroit 2, Mich.

Fact No. 1

You Pay Less to Buy!

Get the price on the Chevrolet truck that's the right size, type and capacity for your work. You'll find it's priced below any other truck capable of doing the same job. Chevrolet's list prices are lowest in the field.

Fact No. 2

You Save on Cost per Mile!

You can't beat Chevrolet's Valve-in-Head engine for over-all economy—fuel, oil, upkeep. It just keeps rolling along. And extra-rugged frame, hypoid rear axle, Flexi-Mounted cab mean longer life, lower maintenance.

Fact No. 3

You Get the Right Truck for the Job!

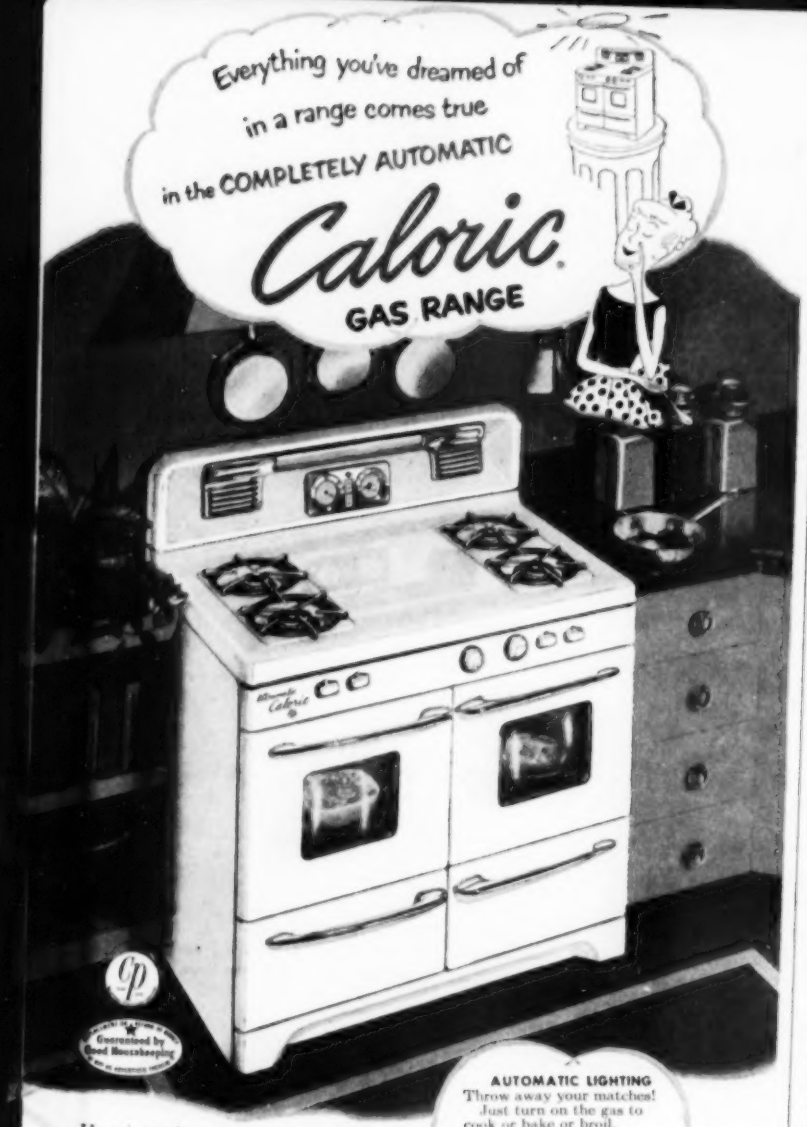
No truck is worth a nickel if it doesn't get the job done—fast and sure. Chevrolet trucks are factory-matched to the payload, factory-matched to the job. There's a chassis and standard body, or chassis for a special body, that's just right for your work.

Fact No. 4

Your Truck Investment Is Safer!

Comes time to trade in an old Chevrolet truck, here's good news: Year after year, used Chevrolet trucks traditionally bring more money, compared to what they cost, than other makes. Chevrolet trucks stand up better. They're a better investment.

CHEVROLET first in demand in value in sales



Here is modern, automatic cooking at its finest, in the most beautiful range you've ever seen. Dozens of Caloric features give you more leisure out of the kitchen, more pleasure in the kitchen, more satisfaction in perfectly prepared meals. Make *your* dream of a perfect range come true with an Ultramatic Caloric Gas Range. See a demonstration, today. Dealers are listed under "Caloric" in your classified telephone book.

COSTS LESS TO BUY, INSTALL, USE

You'll save up to $100.00 on a Caloric, compared with an equivalent range using other fuel. You'll save on installation costs. You'll save on fuel, on service and repair parts. (All Caloric burners and door springs are guaranteed for life.) Remember—more homes cook with gas than with all other fuels *combined*.

All models available for "Pyrofax" Bottled Gas or other LP Gases

Caloric Stove Corporation, Topton, Pa.

AUTOMATIC LIGHTING
Throw away your matches! Just turn on the gas to cook or bake or broil.

AUTOMATIC CLOCK CONTROL
Take afternoons off! Automatic clock control will cook your dinner.

AUTOMATIC TIMED OUTLET
Sleep ten minutes longer! Timed outlet will have your coffee ready.

AUTOMATIC OVEN HEAT
Avoid oven failures! Automatic regulator delivers exact temperatures. Each oven has its own heat control.

ACCURATE TOP BURNER HEAT
Don't waste fuel! TriSet Burners control heat accurately for Fast Boil, Keep Boil and Keep Warm—and a thousand in-between heats.

AUTOMATIC POT WATCHER
Go read a book! Automatic timer will buzz when cooking is done.

SMOKELESS BROILING
Don't broil in a *smoke screen!* Caloric broils with door closed. Gas flame *consumes* the smoke.

Ultramatic
Caloric
AMERICA'S EASIEST RANGES TO KEEP CLEAN

Books

From page 20

Madison Ave., New York 22, New York, 35 cents.) "Steff" is also editor for the U.S.D.A. yearbooks.

The great floods in the Missouri Valley during the past two years bring sharply into focus the job that the United States Army Engineers have been doing in the developing and controlling of our water resources. **Muddy Waters** by Arthur Maass, assistant professor of government at Harvard University (Harvard University Press, Cambridge 38, Massachusetts, $4.75) contains some disturbing charges about the operations of "The Lobby That Can't Be Licked." Since the farmers are the ones who suffer most from top-brass politics in water-resource functions, this book deserves reading.

The Infectious Diseases of Domestic Animals by Dr. W. A. Hagan, dean of faculty, and Dr. D. W. Bruner, professor of bacteriology of the New York State Veterinary College (Comstock Publishing Co., Cornell University, Ithaca, New York, $8) has gone into its second edition. Its 920 pages are a good reference work.

Above all our land this fall hovers the greatest problem confronting civilization—the problem of "enough bread" for the world's peoples. I particularly recommend two books that deal with it: **Let There Be Bread** by Robert Brittain (Simon & Schuster, Inc., 1230 Sixth Ave., New York, New York, $3) and **Journey to the Far Pacific** by New York's Governor Thomas E. Dewey (Doubleday & Co., 575 Madison Ave., New York 22, New York, $4).

Since the fall months are travel time for many farmers, here are a few new travel books. For facts about everyday life in India, read **My India** by Jim Corbett (Oxford University Press, 114 Fifth Ave., New York 11, New York, $3). If you're interested in Scandinavia, get **Skoal Scandinavia** by Edward Streeter (Harper & Bros., 49 E. 33rd St., New York 11, New York, $3.50) as well as **Denmark Is a Lovely Land** by Hudson Strode (Harcourt, Brace & Co., 383 Madison Ave., New York 17, New York, $4.75). Travel in the Alps is simplified by **Footloose in Switzerland** by Horace Sutton (Rinehart & Co., Inc., 232 Madison Ave., New York 16, New York, $4). For journeys in modern Spain and Portugal, read **Journey in the Sun** by Dane Chantos (Doubleday & Co., 575 Madison Ave., New York 22, New York, $3).

For travel in Great Britain, you'll like the series of picture books in Odhams' **Britain Illustrated Series** (distributed in this country by Wm. H. Wise & Co., Inc., 50 W. 47th St., New York 19, New York, at $2.50 each). The titles include: **Castles and Manor Houses, English Inns, English Villages, Home Counties, Rural London, The Scottish Countryside,** and **Pageant of London.** END

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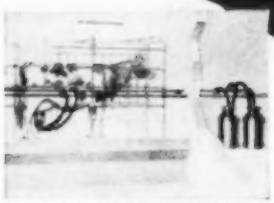
PROVE ITSELF TO YOU

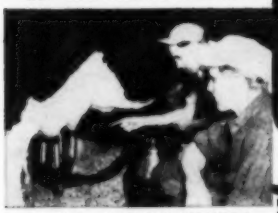
without obligation



DE LAVAL COMBINE SPEEDWAY

DE LAVAL MAGNETIC SPEEDWAY

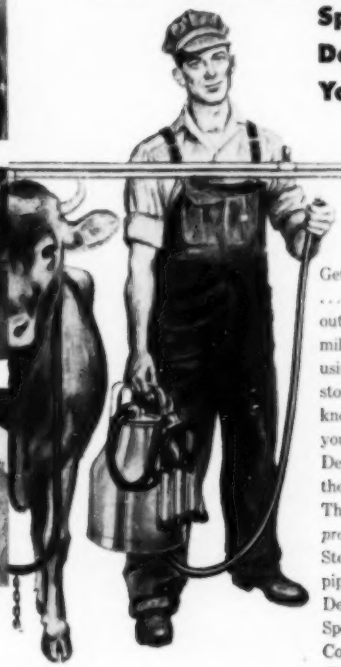
DE LAVAL STERLING SPEEDWAY



DE LAVAL STERLING SPEEDETTE

TRY...a De Laval Sterling Milker Unit on Your Cows...In Your Barn...and Be Your Own Judge

THEN...If You Are Sold on the Advantages of De Laval Better Milking, Select the De Laval Speedway Milker which is Designed Especially for Your Particular Needs



Get the FACTS . . . compare the milking performance . . . ease of handling . . . the way your cows milk out . . . the easy-to-clean features . . . of De Laval milking with whatever milking machine you are now using. Only direct *comparison* can give you the real story on De Laval milking. It *costs you nothing* to know the truth . . . and may *save you plenty*. Just ask your local De Laval dealer to lend you a new De Laval Sterling Speedway Milker Unit to make the "De Laval Milker Direct Comparison Test." Then . . . be your own judge . . . *performance—not promises*—is what really counts. The De Laval Sterling Speedway will operate on your present pipeline. After it has proven to you the superiority of De Laval Better Milking, you can select the De Laval Speedway Milker that best meets your needs—the Combine, Magnetic, Sterling or Speedette. Remember, direct *comparison* reveals the *facts*.

De Laval

THE DE LAVAL SEPARATOR COMPANY
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Please send me interesting new printed matter on:

☐ Combine Speedway Milker ☐ Sterling Speedway Milker
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Town _____ R. F. D. _____ State _____

THRIFTY IDEAS for HOME CANNERS

by Susina Ball

This harvest month finds many fruits and vegetables at their tastiest, as well as their cheapest. You'll pack more *flavor* —plus more economy— into every jar you home-can now.

Before You Start

Do two things first: 1, get all supplies together, including jars, caps, canner, knives, utensils; 2, check jar tops for smoothness. Replace nicked or sharp-edged jars with new Ball Dome Jars, to insure canning success.

Go Buy the DOME

The right lids are vital. Don't risk "guesswork sealing." Get Ball Dome Lids with famous "Touch-Test" seal. Just press to test. Dome down, jar sealed. Accept no substitutes. If one dealer is sold out of Ball Dome Lids and Ball Dome Jars (the only jars that come with Dome Lids) keep trying. It pays!

Some Like 'Em Wide

For canning whole fruit and tomatoes, many folks prefer wide mouth jars. Ball makes this kind in pint, quart and half-gallon sizes, each fitted with Ball Dome Caps. Wide mouth Ball Dome Caps and Lids are also sold separately, to fit any wide mouth jar.

Mason Started It

The first zinc-cap jar was patented by John Mason in 1858. Millions of home canners still prefer Ball Zinc Caps to any other type of lid. Ball Zinc Caps, made of extra heavy zinc, outsell and outlast all others!

FREE Booklet —Send Now!

Get the newest canning and freezing recipes, methods, timetables. All in my handy Free booklet. Yours for the asking. Just drop a postcard to:

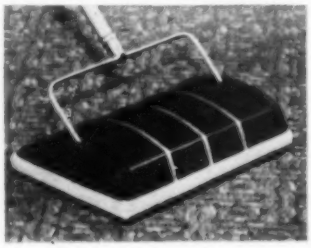
BALL BROTHERS CO., Dept. SUF4, Muncie, Ind.

Guaranteed by Good Housekeeping

© 1952, B.B. CO.

What's new *in homemaking*

Carpet sweepers in color are manufacturers' latest idea for more cheerful housekeeping. Whisk up crumbs under the table with a gay poppy red sweeper; keep a pretty iris blue model handy in the upstairs closet to snatch lint from under the bed! Ball-bearing wheels make sweepers



glide easily. Self-cleaning brushes require almost no attention, and adjust themselves to the thickness of the rug. These new carpet sweepers are available in 10 "fashion" colors. You will find them at department, hardware, and rug stores. Size shown costs $9.75; a smaller size is $7.45. —*Bissell Carpet Sweeper Company, Grand Rapids, Michigan.*

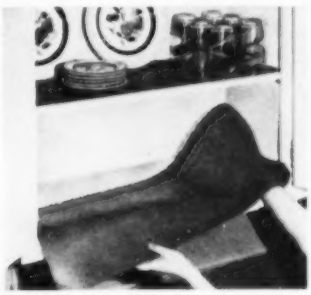
A Jelmeter and Jelly Bag may help you get better jelly, jam, and marmalade. The Jelmeter takes the guesswork out of jellymaking by showing you exactly how

much sugar and pectin to use for each batch of juice. Easy to use—just pour a tablespoon of juice into the tube, let it drip for one minute, then read the meter. Complete directions and recipes included. The Jelly Bag insures clear straining of fruit juice. It is designed to hang from sides of pan or to hang from the knob of cupboard door, leaving your hands free. The cost of the Jelmeter is $1.50, Clear Drip Jelly Bag, $1, both postpaid.—*Ways & Means, P. O. Box 91, Niagara Square Station, Buffalo, New York.*

"Paint-Boy," a wide plastic rim for paint cans, makes all painting jobs easier and neater. Prevents running and dripping of paint down sides of the can, keeps the rim clean so lid can be put back on tight. Wire bail is attached so it can be used as a carrier for the paint can and also as a handy brush rest. The gallon can size costs 89 cents; the quart size is 45 cents (approximately). Buy Paint-Boy at

department, hardware, paint, and variety stores. Or you may order direct from: *Norlac Division, Norton Laboratories, Inc., Lockport, New York.*

Rubber "Shelf-Kushion" stays in place without tacking, is very durable and easy to clean. Under the kitchen sink, or in the laundry room, the rubber shelf liner keeps shelves tidy and dry. Used in cabinets, it helps prevent chipping of dishes and clatter of utensils. This "Shelf-Kushion" comes in bright red, blue, yellow, green, or in an attractive marbleized black. You can get the rubber liner in the right width for your own wall or base cabinets, or trim it to fit. Buy at depart-



ment, hardware, and variety stores. The 36-inch lengths are priced from $2.98 to $3.79, according to the width required.—*Wooster Rubber Company, 1265 E. Bowman St., Wooster, Ohio.*

Big range convenience—but only 30 inches wide!

Frigidaire's "Thrifty-30"—low-priced cooking marvel—with a huge 6-pie oven!

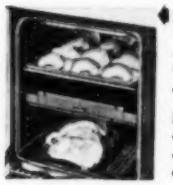
Here's a range to make your eyes dance—the famous "Thrifty-30"! Just 30 inches wide—imagine! Yet the big, *big* oven takes a 30-pound turkey with ease—or bakes six pies at once. What's more, you'll enjoy automatic cooking. The exclusive Cook-Master Oven Clock Control master-minds an entire dinner, while you're out of the kitchen doing other things you want to do. New Radiantube Cooking Units give more heat on less current.

You'll love the smart good looks of this little beauty. And remember—Frigidaire craftsmen built it, covered it with easy-cleaning, good-looking Lifetime Porcelain finish, for a long, satisfying career in your home. See the "Thrifty-30"—biggest little range ever designed—at your Frigidaire Dealer's soon.

Only the Frigidaire "Wonder Oven" Range bakes and broils in the same oven—at the same time!

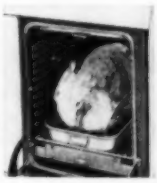
This is truly dream cooking! Right in the same oven—right at the same time—you bake as you broil or roast. Because here you have *two* good-sized ovens. Each with its own heat. Each doing its own job. Each making life easier, simpler, more fun! And in a matter of seconds you can transform these two ovens into one huge oven!

So many other conveniences, too. The famous Cook-Master Oven Clock Control lets you out of the kitchen while entire meals cook to mouth-watering goodness. You'll get more, and faster heat on less current with new 5-Speed Radiantube Surface Units. And Lifetime Porcelain finish, inside and out, gives you damp-cloth cleaning ease over a long, long lifetime of service. See the range that's built to be fun to use—Frigidaire "Wonder Oven"—right away!



Look! It's 2 ovens — Each with its own heat control. Top oven 10½" high, bottom oven 9½" high—plenty of room for every normal need.

Presto! It's one oven! Just drop the center heating unit down—and you have one giant oven. Holds a 30-lb. turkey!



Look at that steak—juicy, tender, broiling to appetizing goodness. And—you *can* believe your eyes—there's a *cake*, baking to moist, fluffy perfection in the same oven! That's "Wonder Oven" cooking ease!

Learn about the complete line of Frigidaire household appliances at your Frigidaire Dealer's. Look for his name in the Yellow Pages of your phone book. Or write Frigidaire Division of General Motors, Dayton 1, Ohio. In Canada, Toronto 13, Ontario.

Frigidaire Electric Ranges

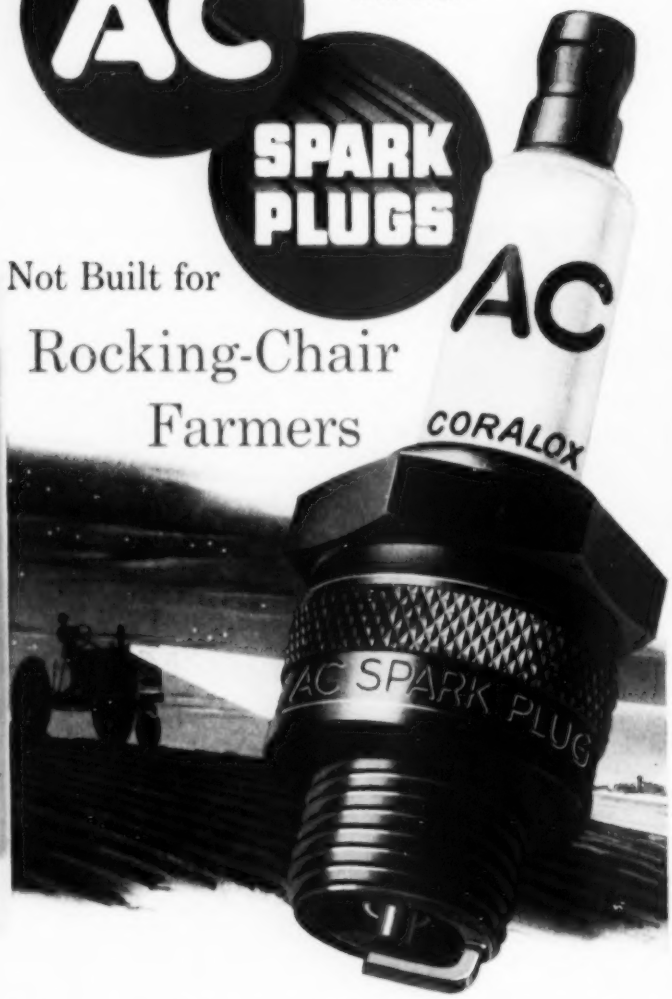
Frigidaire families *live* better, because Frigidaire appliances *are* better

Frigidaire reserves the right to change specifications, or discontinue models, without notice.

PATENTED
CORALOX
INSULATOR

AC SPARK PLUGS

Not Built for
Rocking-Chair
Farmers



Farmers who work their trucks and tractors from dawn to dark—or even around the clock—get the most benefit from AC Spark Plugs, the *only* plugs with patented *CORALOX* Insulator.

CORALOX can really withstand the heavy grind, having many advantages over previous type insulators—

- wider heat range
- greater strength
- better electrical insulation
- greater resistance to fouling
- longer spark plug life

ACs are used as standard factory equipment on more new cars and trucks than all other makes combined. Try them. They'll give you "never-say-die" performance in your car, truck or tractor.

AC SPARK PLUG DIVISION GM GENERAL MOTORS CORPORATION

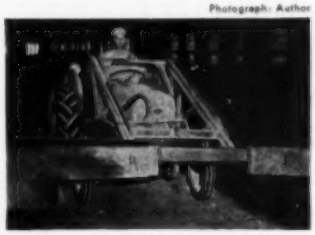
Tractor-mounted gutter cleaner

A homemade gutter cleaner is saving some New York dairymen a great deal of time and hard work. The cleaner is simply a barn gutter scraper mounted on a tractor. The cleaner can be made in the farm workshop or in a welding shop.

Early in 1949, Walter Culver, Jr., dairyman near Amenia, New York, started thinking about how he could do the chores more easily in his 100-cow dairy barn. First, he took measurements of the gutters in the barn. Then he bought some sheet iron and framework material and took them to a welding shop, where the scraper was built.

With the scraper, Culver's barn can be cleaned with the cows either in or out of the stanchions. Cleaning time is about 45

Photograph: Author



minutes for one man, including spreading the manure on a nearby field. Culver can load the spreader in 5 minutes. He takes the manure from 12 cows—6 on a side—in one sweep with the scraper. At the ends of the gutters, the manure drops through holes into the spreader below.

The cost of the sheet iron for the scraper blade and the welding was only $30. The tractor hoist was $210. While the hoist can be used for other jobs, Culver charges the cost to the barn cleaner. The cleaner has now been in use three years.

In 1951, Jacob Hilperthauser, Millerton, New York, built a new 76-cow dairy barn and installed a similar cleaner. Hilperthauser took dimensions from Walter Culver's cleaner and had a welder construct the scraper to fit his tractor. The construction cost was $125 for the scraper blade and welding job.

Bernie Morrison, Millerton, New York, also has built a tractor-mounted scraper. He used the same idea as Culver but mounted the cleaner on the rear of his tractor. The hydraulic drawbar elevates the blade about 2 feet. Morrison's cleaner cost $125.—*Oren Burbank.*

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Rotors of the helicopter drive the dusting material down through the fruit trees, ensuring uniform coverage.

Helicopter Proves Effective in Pest Control Operation

Marfak lubricant sticks to bearings better and longer. That is why it is used on this helicopter duster and sprayer, owned by Economy Pest Control of Yakima, Washington. J. B. Dennis lubricates as Texaco Man Tom Stockstill of Wenatchee offers his help.

Three enterprising men, Joseph Scaman, Agricultural Chemist; Don Larson, Entomologist; and Carl Brady, Helicopter Specialist, of Yakima, Washington, saw the advantages of using a helicopter for dusting and spraying fruit trees, and organized an aerial pest control service. They cover thousands of acres annually. Main advantages have been found to be maneuverability and ability to land in a small space to reload the hoppers. Texaco Products are used to fuel and lubricate the engine.

Reason why so many keen farmers use Havoline Motor Oil is because it exceeds Heavy Duty requirements — is ideal for Diesel or gasoline engines or equipment using LP-gas as fuel. Havoline keeps them cleaner, better lubricated, thus delivering more power from every drop of fuel. Mr. W. E. Stephens (left) of Sheldon, Texas, puts some in his tractor. Texaco Driver T. I. Trahan from Houston watches operation.

Friendly on-time service: Texaco Man Otto Nadler of Lakemills, Wisconsin, like Texaco Men the country over, takes a friendly interest in the farmers he serves. He has just delivered a tankful of Fire-Chief, the gasoline with superior *"Fire-Power"* for low-cost operation, at the Kasten farm. Harvey Kasten is shown on right.

THE TEXAS COMPANY

IT PAYS TO FARM WITH TEXACO PRODUCTS

DIVISION OFFICES: Atlanta 1, Ga.; Boston 17, Mass.; Buffalo 3, N. Y.; Butte, Mont.; Chicago 4, Ill.; Dallas 2, Tex.; Denver 5, Colo.; Houston 1, Tex.; Indianapolis 1, Ind.; Los Angeles 15, Calif.; Minneapolis 5, Minn.; New Orleans 6, La.; New York 17, N. Y.; Norfolk 1, Va.; Seattle 11, Wash.

Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

Remove Uncertainty!

How much will my insurance cost me this year?

If I have a loss will I be paid in full?

Does my company have a sufficient surplus to meet all possible claims? Am I properly and adequately covered?

As a farmer you have enough to worry about—flood, drought, disease, etc.—without worrying about your insurance.

No need to worry if you let an America Fore agent serve you—with proper coverage in an Old Line (Capital Stock) Company at predetermined rates.

Rely on your local America Fore Farm Agent for sound insurance protection—and for full friendly help in settling claims! To locate him, call Western Union by number and ask for Operator 25.

The America Fore Insurance Group comprises the

CONTINENTAL · FIDELITY-PHENIX · NIAGARA
AMERICAN EAGLE · FIDELITY and CASUALTY
INSURANCE COMPANIES OF NEW YORK

LOOK FOR THIS SEAL ON YOUR POLICIES

America Fore
INSURANCE GROUP

All around

Here are tips to help you save some time, space, steps, work

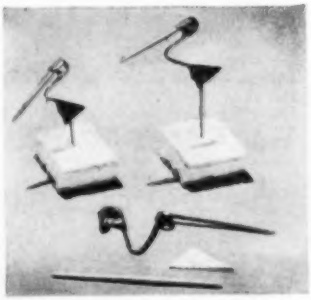
● When doing sewing where extensive shirring is required, I use buttonhole twist in place of regular thread in both the bobbin and upper thread on the machine. The twist will not break when it is pulled and it gives a uniform job. The shirred garment will stand repeated washings.—*Mrs. J. N., Wisconsin.*

● **I use two pieces of aluminum foil cut to fit my cooky sheet when baking cookies. I drop the dough onto one sheet of foil, place this on the cooky sheet, and put it in the oven. While these cookies are baking, I prepare the second piece of foil in the same manner. When the cookies come from the oven, it is a simple matter to change sheets of foil.—*Mrs. L. W., Iowa.***

● When my small lamp shades are no longer usable as shades, I paint them attractive colors and put them on my closet shelf to serve as hatstands. Various sizes of shades can be used for men's and women's hats.—*Mrs. J. I., Connecticut.*

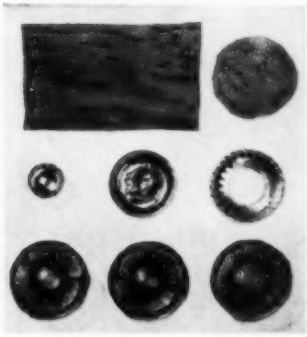
● **By dipping plastic cooky cutters in warm salad oil, I find that I get perfect figures from any rolled-dough cooky recipe.—*Mrs. E. K., Minnesota.***

● A clever and inexpensive favor for a baby shower can be made from a single safety pin, a colored toothpick, and a triangular piece of paper. I bend the pin to resemble a stork's body and insert the toothpick in the pin guard to represent the beak. The paper piece can be slipped into the round end of the pin. I place the stork in a plastic-foam square, but cork can also be used.—*Mrs. J. H., Iowa.*



● **An egg carton is excellent for storing bulbs in the fall. I write the names of the different varieties of bulbs on the outside of the carton, thus making my spring gardening work easier.—*Mrs. E. M., Michigan.***

the house



● I make attractive leather buttons for my tailored garments by using the better parts of discarded leather gloves. Fine leather works every bit as well as other fabrics in the button forms. Use any of the standard button forms on the market, but do not try to cover a very small button. Buckle forms can also be covered with discarded leather pieces.—*Mrs. W. O., Kansas.*

● **When a cork top to a bottle is difficult to pull out, I lay two pieces of string across the opening before replacing the cork. Then, to open the bottle, I pull on the strings and the cork comes out easily. Use only one piece of string if the cork is a small one.—*Mrs. L. T., New Hampshire.***

● If you store your canned fruit and vegetables on open shelves, nail window-shade brackets to the top shelf and use a discarded shade to cover the front of the shelves. I find that the shade protects my jars from the light which will cause the canned goods to fade.—*Mrs. L. P., Nebraska.*

● **My ironing board, once an eyesore, is now a handsome laundry-room fixture. I painted the understructure and made a removable cover of denim. Even a deep scorch doesn't hurt the appearance of the cover.—*Mrs. D. F., Indiana.***

● I wax my painted shelves before covering them with oilcloth or paper. The paper or oilcloth will not stick to the shelves and is more easily removed when soiled.—*Mrs. M. R., Missouri.*

● **When I need an emergency dessert, I dissolve flavored gelatine according to directions and add a box of frozen fruit. The gelatine sets almost instantly.—*Mrs. L. G., Wisconsin.***

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

MOTHERS!

"DIRT DANGER" DAYS ARE HERE FOR YOUR CHILDREN!

Dirty hands can be dangerous... Clean hands are healthy hands

BEFORE *washing with LAVA. Dirt ground in deep*

AFTER *39-second wash-up with LAVA Soap*

Mothers, during these "Dirt Danger" days, watch your children's hands carefully, for you do not know what's hidden in the dirt on their hands. Be sure their hands are thoroughly clean after play . . . before every meal . . . at bedtime. Health authorities agree that *clean* hands are *healthy* hands.

Lava Soap Gets Out Dirt Ordinary Wash-ups Miss

Lava Soap cleans dirtiest hands lightning fast. *Routs out* dirt, ground-in grime in skin creases—around nails and knuckles in 30 to 50 seconds. Yet Lava is *amazingly gentle* . . . safe for tender skin of women or toddlers.

Don't Take Chances—Get Lava

During these "Dirt Danger" days keep Lava Soap handy for your children to use. Remember, Lava gets hands *cleaner faster, easier* than any toilet soaps.

ALL DIRTY HANDS NEED LAVA SOAP

Enjoy the Convenience of ADEQUATE STORAGE!

with

Bilt-Well

NU-STYLE UNIT WOOD CABINETS

Build Well with BILT WELL WOOD WORK

Here's the perfect solution to your individual storage problem . . . Bilt-Well Cabinets!

They provide wonderful storage space without costly construction, partitioning, framing or plastering. They are far superior to conventional closets.

Each cabinet comes prefitted, semi-assembled and carton-packed. Complete instruction sheets are in the package and installation is as simple as A B C . . . Hammer and screw driver are the only tools necessary to do a professional job. Bilt-Well Multiple-Use Cabinets can be finished in any color scheme —painted, stained or varnished.

Bilt-Well Cabinets will fit any shape or size room because they are furnished in a number of standard sizes.

Write for illustrated booklet giving us the name of your lumber dealer. Enclose 25c to cover cost of mailing.

CARR, ADAMS & COLLIER CO.

Dubuque, Iowa

CARR, ADAMS & COLLIER CO. Dubuque, Iowa

Please send me BILT WELL cabinet booklet. Enclosed 25c to cover cost of mailing.

Name

Address

City State

My Lumber Dealer is

SF-9 City State

WHAT WAS NEW IN FARMING

50 Years Ago

Back in 1902, *Successful Farming*'s first year of publication, the washing machine was generally considered an impractical machine. Even this "labor-saving" washer hadn't taken precedence over the washboard. Fortunately, manufacturers didn't give up

Telephone Facts

Facts are what the farmer wants, whether buying a team or a telephone. If you want to know how others have built successful telephone lines write for free book 612. Our book 8 ind "Telephone Facts for Farmers" gives the facts you ought to know about telephones for farm use, and whether you buy

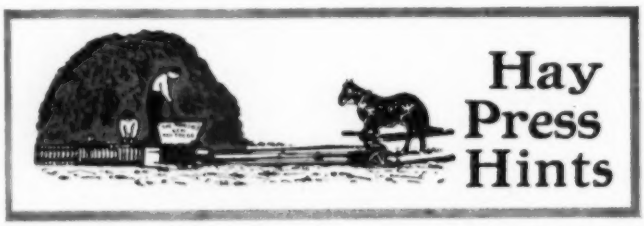
STROMBERG-CARLSON TELEPHONES

or not you will be in possession of information which will enable you to buy the right telephone, build the right line and save unnecessary expense. We send it free.

Remember when you were your own operator—two shorts and a long? Sometimes you couldn't hear for cross talk. Regardless, several are still in use today

Fifty years ago oats served as fuel to develop horsepower, with a strong Percheron or Belgian doing the conversion. Contrast this with today's power plants

Here was smart foot attire for fashionable ladies in 1902. Grandma had to allow several extra minutes, though—to lace them up. Not as quick as sling pumps



With this horse-powered rig, you were lucky to bale 1 ton per hour—not to mention the hard work required of two men and a horse. Today, balers will average 6 to 8 tons per hour with field pickup and automatic tying, to mention a few features

"The best friend you can have on your farm"

AUREOMYCIN

as a supplement in feeds and as a medication

A new era in farm life began in 1949. Then, *Lederle* introduced the *first* antibiotic ever to be used as a "growth" supplement in livestock and poultry feeds.

The antibiotic was AUREOMYCIN. Farm people already knew aureomycin for the wonderful results it had achieved in the treatment of human diseases. And, in the barn, tubes of Aureomycin Ointment for treating mastitis in cows had become familiar and welcome objects.

What aureomycin has meant to farmers and their families, in the past 2 years, makes a farm success story almost without equal in this century. Many thousands of farmers have learned, in terms of "more dollars," how great a "friend" aureomycin can be, both as a supplement in livestock and poultry feeds and as a medication for treatment of sick animals.

These farmers have watched their calves, pigs, chickens and turkeys grow sturdily and with astonishing rapidity. They have seen young calves and pigs made more secure against the ravages of scouring. With the aid of aureomycin as a medication, they have rescued hundreds of thousands of animals stricken with numerous diseases. They have brought *more* fine-appearing animals and poultry to the profit stage *sooner*, and used less feed to do it.

It will repay *you* many times over to keep aureomycin *continually in use* on your farm. This many-use antibiotic is available as a supplement in commercial feeds and it can be procured as a medication, in several forms, through your druggist, feed store or veterinarian. Write for free literature.

LEDERLE LABORATORIES DIVISION

AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza New York 20, N. Y.

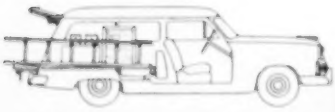
It's America's lowest priced full-size station wagon.

Country worker or country gentleman, it meets every farm need!

No other maker in America gives the farmer so much car for so little money. For this "double-duty dandy" is designed to be a workhorse on weekdays and a family sedan on Sundays.

Underneath the Ranch Wagon's all-steel body you'll find the most powerful engine in the low-price field, the 110-h.p. Strato-Star V-8. Or choose the 101-h.p. Mileage Maker Six. Both have new high compression.

With "Stowaway" seat up, you have a roomy 6-passenger sedan with space in back for surplus baggage. Easier-to-load tail gate lets you pack up in a jiffy.



With "Stowaway" seat folded into the floor and tail gate down you have load space nearly 8 feet long. Best of all, this double-duty beauty is America's lowest priced full-size station wagon!

Trips to town for bulky loads are easy with the Ford Ranch Wagon.

Ford offers three great station wagons

Ford's all-new line also includes two 4-door station wagons. The all-metal Country Sedan has room for eight or a half-ton of freight. The Country Squire is 8-passengers big, too. Or with rear seat out, "Stowaway" center seat folded into floor and tail gate down, you get over 8½ feet of loading length. Both are powered by Ford's 110-h.p. V-8 . . . the *only* V-8 in the low-price field.

Fordomatic, Overdrive, radio and Ranch Wagon two-tone colors optional at extra cost. Equipment, accessories and trim subject to change without notice.

FORD RANCH WAGON

You can pay more but you can't buy better!

Many of us wonder what we as individuals can do to help bring about a more peaceful world. One voice is so very small, we say. And yet, as these down-to-earth steps are showing today, one voice can be so eloquent

15 WAYS *you can* WAGE *the* PEACE

By Robert West Howard

Go west at midnight, four blocks from Broadway and Times Square, to see the roaring, white-light panorama of world neighborliness in action. Along the edge of Manhattan Island, the west-side highway soars on concrete stilts above the steamship piers. All night long, in the hot glare of floodlights, the winches clash and clank. The loading nets creak up into the sky. In the cargo transferring between land and ocean go parcels of clothing, books, seeds, food, and grain from church groups, The Grange, The Farm Bureau, Farmers Union, to "adopted villages" around the world. There are CARE packages, shipments of tractors, crates of hoes and hand tools. And from a float alongside a freighter, a windlass swings a heifer for Europe toward the hold.

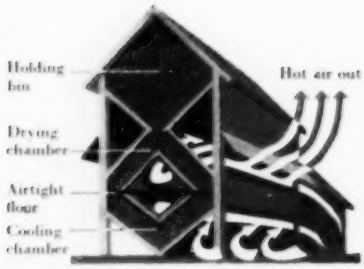
Here's friendship in action—a friendship that's repeated in all the ports along both coasts. Each letter, parcel, and crate swinging up over a shipside is proof that farm families and neighborhoods are taking the initiative toward peace. They are heeding this sound advice: *We have a great opportunity to avoid a general war if we begin at once to wage the peace with imagination, boldness, and a sense of dedication.*

Here for your reference—and participation—are 15 ways that you can help. We hope this is *not* a complete list—we are sure it is not—for the campaign must grow. The 15 steps must become 20, 30 . . . 50 . . .

1 Support your church's rural program. Every denomination and faith in the United States has developed a program for the betterment of rural living. The Roman Catholic Church does far-reaching work through the National Catholic Rural Life Conference, with headquarters at 3801 Grand Avenue, Des Moines, Iowa. The Methodists' rural-life work is directed from church headquarters at 150 Fifth Avenue, New York 11, New York. The Congregational Christian Church rural activities function through its Missions Council at 14 Beacon Street, Boston 8, Massachusetts. Baptists, Presbyterians, Lutherans, Brethren, Latter Day Saints, and all other faiths have rural-life programs. Your pastor will know about them—and will know what you can do to help them along.

2 Send CARE packages. The CARE organization, with international headquarters at 20 Broad Street, New York, New York, is a cooperative organized at the end of World War II for the specific purpose of routing individual packets of food, clothing, and desperately needed supplies to families in Europe. The legal name of CARE is Cooperative for American Remittances to Europe, Inc. But CARE has met with such acclaim throughout the world that it now operates throughout Asia, the Near East, and South America as well. You can send a box of children's books ($10), a "beast-drawn plow" ($17.50), sets of technical farm books ($5 up), wool suitings ($15), or any of some 70 types of food, clothing, or hand-tool packages through CARE to any family in any nation where it operates. Millions of international friendships have been created during the past six years as a result of CARE's low-cost parcels.

3 Be a booster for F.A.O. The Food and Agricultural Organization of the United Nations has its American headquarters at 1340 Connecticut Avenue, N. W., Washington 25, D.C., with Gove Hambidge in charge. Its international headquarters is in Rome, Italy, under the direction of Norris E. Dodd, former United States undersecretary of agriculture. It is attempting the titanic job of improving rural life everywhere on earth, through the development of self-help programs. Yet F.A.O. operates on an annual budget of less than one-tenth of 1 cent per United States farm resident! It can make excellent use of small and large contributions. Write the director of the American office, who will tell [*Turn to page 58*



Fan pulls cool air through dried grain, heats it, then forces it back through the wet grain

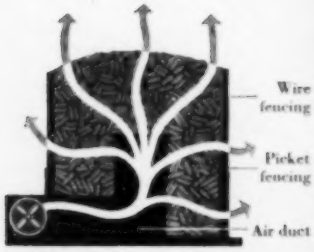
Batch dryer using heated air

Use this dryer on all grain crops. Last year Wirth Brothers, Otoe County, Nebraska, dried over 10,000 bushels. Wet grain is held in holding bin—levers control movement of grain through drying, cooling chambers. Natural gas is used for fuel. Corn is shelled in field. For plans, send 30 cents to University of Illinois—ask for Plan No. 503

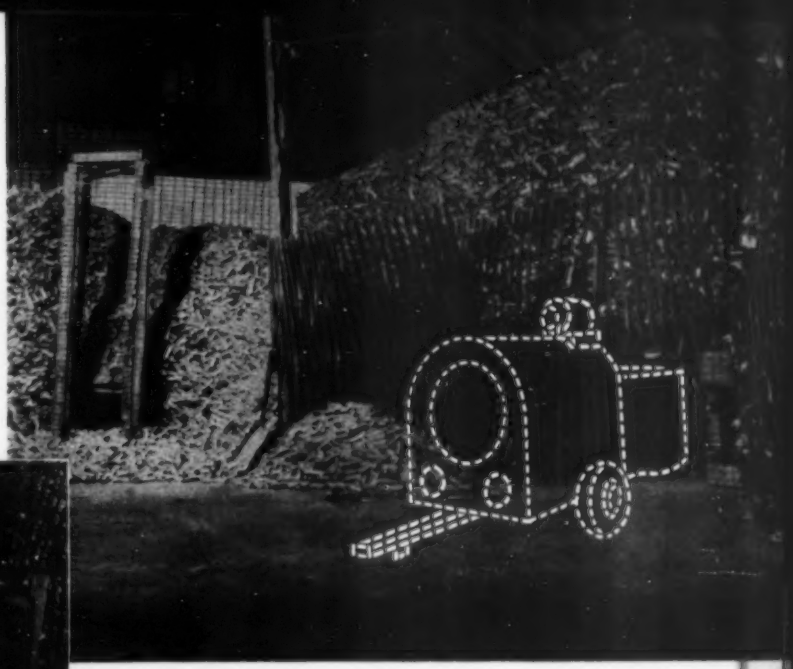
What's your corn-drying problem?

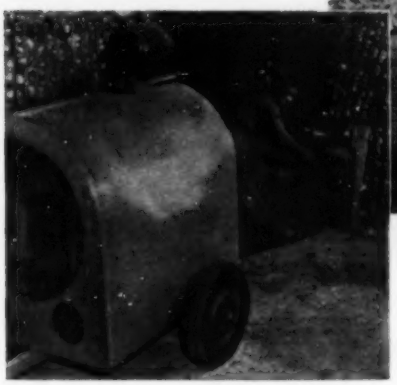
The demand is for quality grain. Elevators, as well as livestock feeders, are insisting on it. Too much corn spoils in the bin. The wet-corn problem has focused attention on forced-air drying. Not only is it a *sure way* to get quality, but it enables you to crib corn two to three weeks earlier than normal. In this article, *Successful Farming* brings you six ways of drying and storing corn. If forced drying is used, make sure *air-flow travel is equal* in all directions. When buying a dryer, consider one which can be used for drying all crops—small grain and hay as well as corn.

By C. H. Van Vlack and Vernon Schneider



Airtight wind tunnel brings air to flue running up center of the crib





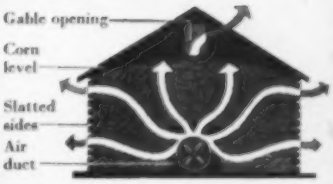
Temporary crib using picket fencing

Corn crop is stored and dried in picket-fence cribs by Harold Florin, Rock County, Wisconsin. The seven 1,000-bushel cribs are placed in Quonset building. Heated air is used — dries faster than he picks. It takes 24 hours to reduce the moisture from 30 to 17 percent. Corn is picked between October 1 and 15. Picker does cleaner job, there is less shelling on the ear. Ducts are wooden and covered with wire. Strong, airtight paper lines ducts

Existing corncrib adapted for drying

Fan and air duct are placed in driveway of double corncrib by Clay Dewey, Janesville, Iowa. To increase the crib capacity, corn is stored over and around duct. Moist air escapes out gable and slatted sides. For economy, dry large batches. Fan also can be used for drying other crops. Fan is set in crib to equalize distance of air travel

Photographs: Pease, Hufnagle



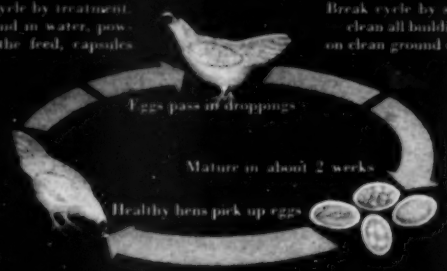
Air travel equal in all directions

More corn-drying ideas on page 90

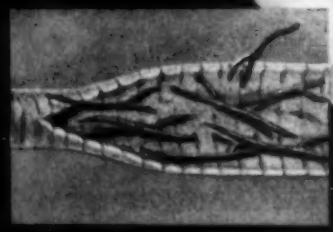
1. Large roundworms in small intestines

2. Cecal worms in ceca, usually near tip

Direct life cycle—worms have no intermediate host

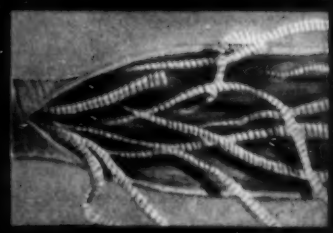


Worms in direct cycle are various kinds of roundworms, including large round and cecal worms. Capillary worms and gapeworms go through both direct and indirect cycles. Rotate range so that pullets are never on the same ground 2 years in row. Never allow pullets to run with old hens. Worm pullets before housing—follow label directions closely.



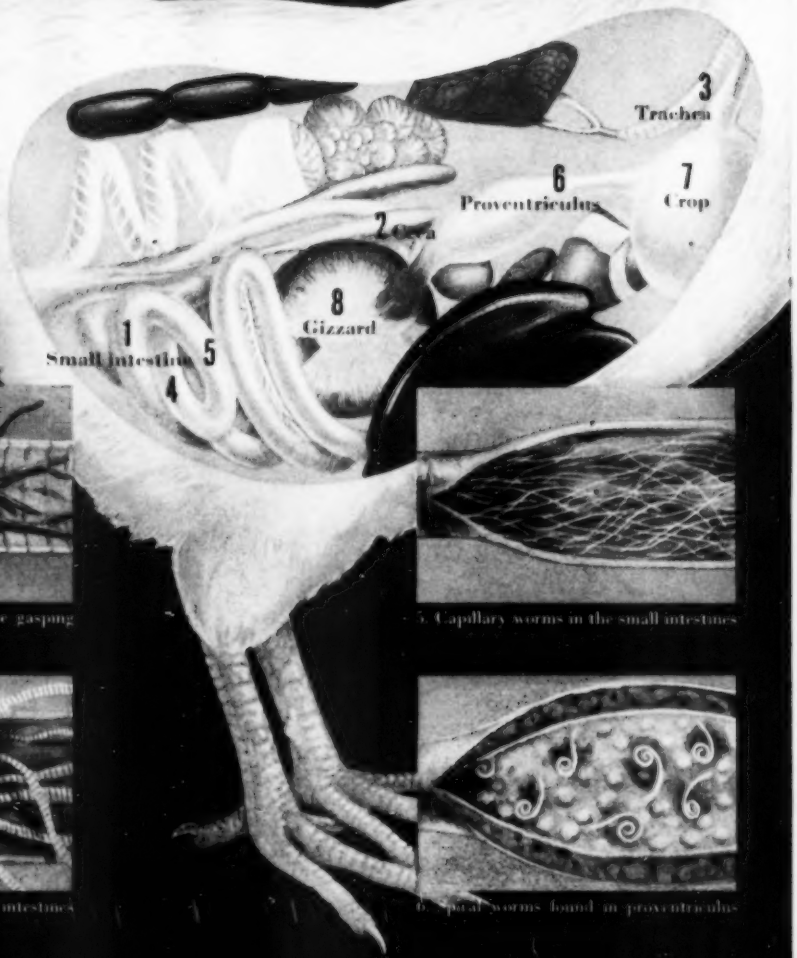
3. Gapeworms in trachea, cause gasping

5. Capillary worms in the small intestines



4. Tapeworms found in the small intestines

6. Spiral worms found in proventriculus



WORMS

—*eaters of poultry profits*

By Don Womacks

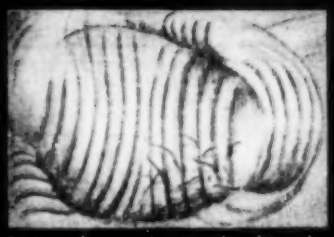
Few poultry flocks escape worms. And the damage they do costs flockowners millions of dollars each year. Not only do worms lower resistance, leaving the bird open to an attack by some other disease, but stunted growth, reduced feed efficiency, delayed maturity, and poor egg production add to the feed and labor costs.

Wormy birds are not always easily recognized. An unthrifty condition too often is blamed on some other disease trouble. Also, it is becoming increasingly difficult to single out wormy birds. Improved feeding, better breeding, and good management practices have produced a stronger bird which can tolerate worms and show little if any sign of infestation. As a result, many birds which appear healthy and normal are worm-infested.

A good worming job requires proper worm identification. The drawings on these two pages show what each worm looks like and where to find it when posting a bird. Also shown is the life cycle (direct or indirect) of each worm—*and the best time to break the cycle.* Sanitation will do a fairly good job of holding down worms—but both sanitation and treatment measures are necessary if worms gain a foothold in your flock. [*Turn to page 130*

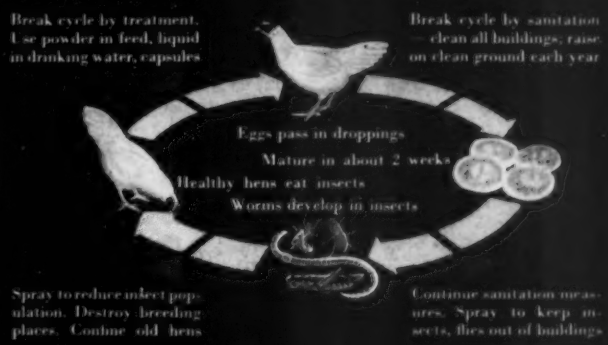
Drawings: Rocco

7. Capillary worms lying loose in the crop



8. Gizzard worms in gizzard, red in color

Indirect life cycle — worms have intermediate hosts



Worms in this cycle include spiral, gizzard, and all tapeworms. Also included are capillary worms and gapeworms which go through both cycles. Intermediate host gives you two cracks at these worms—makes them easier to control. Pasture rotation, clean buildings, and segregation of old and new birds are the best preventive measures. Worm before housing, repeat so worms never get old enough to make eggs.

By D. Howard Doane

Should I grow grass?

"I'm going to put my farm in grass and quit all this work and worry in growing crops. I'll get a good stand of grass, turn out the cattle, and forget about planting, cultivating, bugs, plant diseases, harvest, and storage."

You may have heard a statement like this—or maybe it went like this: "It isn't worth slaving all my life to pay for this $300-an-acre land. I think I'll head south and pick up some of this cheap land and raise grass."

Wisely carried out, these plans would probably come up to expectations. But entry into a predominantly grass system is not like "falling off a log." To begin with, setting up land in grass—the kind you must have to make it pay—costs money. It takes less for these improvements on some land than other, but is always expensive.

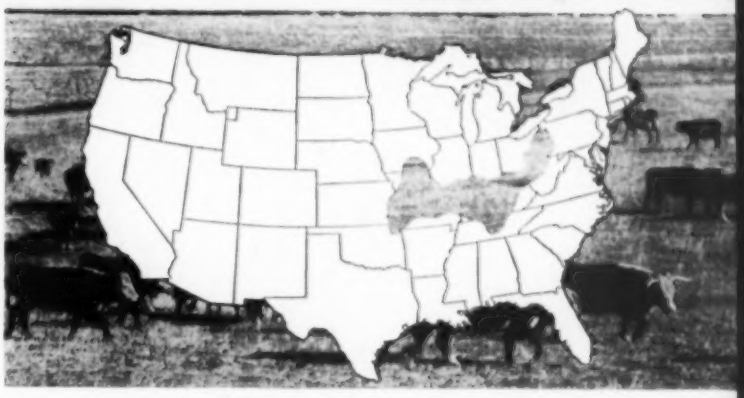
As this is written, I am just completing the seeding of a 50-acre field in east central Missouri to modern grassland. This unimproved, well-located tract, except for fence, would sell for $100 to $125 per acre. My initial investment was as follows:

Grass or grain? Here is the range of costs—and probable returns

		CORNBELT	MID-SOUTH
Size of farm (2 men)	GRASS	200–400 A.	200–600
	GRAIN	160–400 A.	160–400
Price of land (per acre)	GRASS	$50–150	20–125
	GRAIN	$125–450	85–200
Additional land costs to get going (per acre)	GRASS	$10–50	35–80
	GRAIN	$10–35	10–60
Annual costs of a crop (per acre)	GRASS	$12–30	10–25
	GRAIN	$25–60	20–60
Total machinery investment	GRASS	$4,500–12,000	4,500–10,000
	GRAIN	$6,000–15,000	6,000–15,000
Livestock investment (per acre)	GRASS	$60–160	50–160
	GRAIN	$25–160	40–120
Annual working capital needed (per acre)	GRASS	$25–50	20–45
	GRAIN	$40–75	30–60
Yearly gross returns (per acre)	GRASS	$50–85	40–80
	GRAIN	$65–130	50–120

This table, compiled by Successful Farming, is not intended to prove the advantage of either system

Bulldozing to level a few ditches and do some clearing, 20 hours—$200. Lime, 3 tons per acre at $2.85 a ton, spread—$427. Rock phosphate, 1,000 pounds per acre at $23 a ton, spread—$575. Mixed fertilizer, 250 pounds per acre at $60 a ton—$375. Seed, 10 pounds per acre, costing 50 cents a pound—$250. Seedbed preparation (estimated cost of going over it 6 times)—$300; and 100 pounds of nitrogen fertilizer per acre in the spring—$200. Total cost of improving the 50 acres was $2,327, or $46.55 per acre.



Where would we locate the center of grass production? It can be in the area outlined

If the value of the land at $100 is added, the total would be $146.55 per acre.

If in addition to grazing, hay or silage is cut, there will be an additional investment of from $5,000 to $10,000 for tractors and harvesting equipment and storage. Of course, machines costing these figures will cover more than the 50 acres.

Then there is the necessity of utilization. We can assume that 1 acre will pasture 1 mature cow or steer, and 1 additional acre, in some areas ½ acre, will furnish all of the necessary hay or silage for 1 animal for the winter.

A grade beef cow will cost at present about $300. A 700-pound steer at 30 cents will cost $210. A modern setup for 50 head of cows or mature steers, including the land, would be about as follows:

Land, 75 acres, 50 for pasture and 25 for hay, at $100 per acre—$7,500. Equipment for tillage and planting and harvest and storage—$7,500 (roughly). Livestock, 50 cows at $300 each or 50 steers at $210 each—average $12,000. Cost of getting a moderate stand of top-grade pasture and hay, $40 to $50 an acre—$3,370. Thus we have an over-all investment for land, livestock, machinery and storage, and getting the pasture going of slightly over $30,000.

This item of more than $30,000 must be carefully studied. First, most farmers already have the land, much of the equipment, and perhaps a breeding herd, so that few will have a $30,000 *out-of-pocket* cost to get a modern pasture program going on 75 acres. These figures simply represent certain unit costs which must be considered in arriving at final conclusions. Each farmer can quickly and easily determine which, if any, he must consider. It is clear, however, that setting up a modern pasture operation is not inexpensive. Once you get going, it takes less money to operate grass acreage since annual crop expense per acre is lower.

No one can give you the answer to whether going into a grassland program would be more profitable *for you* or not. An economist might tell you this: "You should increase grass acreage on your farm until you reach the point where the next acre—and therefore the remainder of your acreage—would make more money if planted to grain." This rule probably is working on your farm now, though perhaps not to its fullest. If you live in the heart of the Cornbelt, this mythical point is probably setting your grass acreage at about one-fourth of your farm each year. Or if you live [*Turn to page 156*

—you can expect if you operate a livestock program today

SOUTH	NORTHEAST	
200–600	200–400	Efficient farms are operated on acreages above and below these—most fall between these figures
No comparable figures	150–300	
20–100	40–125	Prices reflect varying need for improvements. Some feel that cleared land is best buy for grass
No comparable figures	100—300	
25–90	20–75	Most land needs $10 to $30 worth of fertilizer and lime. Clearing and bulldozing shoot up the costs
No comparable figures	10–50	
10–25	10–35	Direct costs of raising and harvesting vary with crops. Fixed costs are highest on top-priced land
No comparable figures	25–60	
3,500–10,000	5,500–12,500	Labor often substitutes for machinery. Some get by at first with custom work and used equipment
No comparable figures	6,000–12,000	
50–160	75–175	Key to profits from grass is livestock enough to use all that is grown. Grain is more flexible
No comparable figures	40–100	
20–40	25–45	Includes out-of-pocket expense—land and livestock expense, feed, seed, taxes, new machinery, etc.
No comparable figures	35–75	
35–75	40–85	Figures are for established farms. Takes several years to reach top production, especially with grass
No comparable figures	55–100	

First of a series: Recipes for good decorating

How to use color

Here is *Successful Farming's* answer to your color problems: one easy-to-follow recipe that will take all the guesswork out of planning new schemes of color for your home

By Joan Bradshaw Scovel

When you step into an attractive-looking room, what is the first thing you notice? The color scheme, of course. Haven't you often wished that there were a recipe for putting these right colors together—just as there is for mixing a cake? Here at *Successful Farming* we have just finished building and testing such a recipe—a very simple one. We believe you'll enjoy following it, and will find it as helpful in your decorating as it has been in ours.

With this color recipe, you will be able to achieve a sparkling, color-right room, whether you are getting new furnishings or redecorating around the pieces you already have. The procedure is simple. The three ingredients and three utensils you need are contained on this and the following pages.

The ingredients for our color recipe are these three decisions, which you will make with the help of the simple rules and charts we give you here. These decisions are: (1) What colors do you wish to use? (2) What tones of each of these colors will fit harmoniously with one another? and (3) How much of each of them do you need to attain the proper proportions and balance?

The utensils you will need are the *Successful Farming color clock* for selecting your colors (you will find one used on the opposite page), our one simple rule for toning them, and the handy chart drawn up to show you the amounts of each color to use.

The first step is always to choose the main color for your room. As very few of us are able to "start from scratch" with everything new, your main color probably will be based on some present furnishings you are not planning to change. If you are fortunate enough to be buying new things, you will start perhaps with your favorite color. And from here, to the *color clock*.

The *color clock* is made up of 12 basic colors. From them stem hundreds of colors. Tones of these colors are then made simply by adding black or white to lighten or darken them, or by adding the colors opposite on the color clock to "gray" them. Black, white, or gray, you'll find, are not classified as colors, but are used as "neutrals" in almost every color scheme. Gray is made by mixing black and white, or by mixing equal amounts of any two colors directly opposite on the clock. If you like gray and would like to use it as the main color in your color scheme, treat it as you would any of the basic colors and use it, too, in various tones.

Experts have worked for years to perfect methods of selecting color schemes. But you don't have to be an expert to use *Successful Farming's* method. There are only three basic color schemes. From these you can make many variations.

The first is a *one-color scheme*, which is exactly what the name implies—various tones of one color. The second is a *neighboring-color scheme*. It combines two or three colors which are next-door neighbors on the color clock. And the third is the *opposite-color scheme*. This uses two colors directly across from one another on the color clock, with a third color chosen from approximately midway in between. You can quickly work these out for yourself by penciling the hands on the color clock in any of the three positions. You will find a color clock with each of the illustrations in this article.

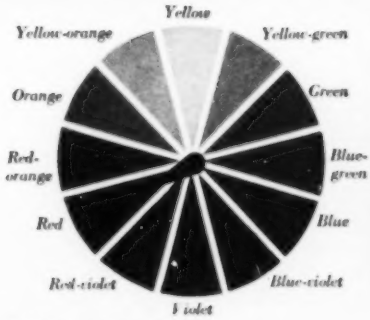
In selecting your color scheme, bear in mind the number of colors best in one room. Three, plus a small amount of accent color, are considered ample.

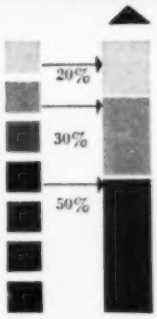
But let's proceed with our recipe now and blend in the ingredients that will put together a finished room. Looking at the living room on the opposite page, you will notice that this entire room is decorated around a simple *one-color scheme*. Red is the basic color. And since every color has many tones, we've taken our color—red—plus two of the interesting variations that can be made from it by adding white, black, or gray. We have chosen an attractive rose-gray, and a clear pink.

It is important to vary these tones of red so that they will harmonize and contrast well with one another. In every good room scheme, you will find variations of these tones. The rule you will want to follow is: *Use something dark, something light, something dull, and something bright*. Vivid, harsh colors should [*Turn to page 42*

Home agents, teachers: *Successful Farming's* new film strip, *Recipes for Color*, is available for your use. For information turn to page 67

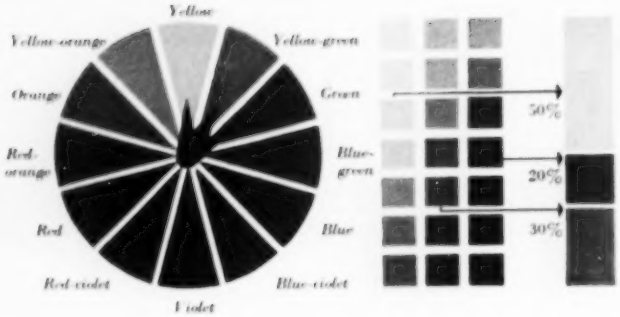
Photograph: Fletcher





This is a one-color scheme

The hand on the color clock points to one color, red. Here is the main color used in this color scheme. The two other colors in the room stem directly from the red. The adjacent chart shows the colors of red picked for the finished room and the percentages of each used in the room. Note how the pattern on the wing chair ties all of the colors together and offers a relief from too many solid colors.



This is a neighboring- or "friendly" color scheme

The hands of the color clock show you that the three colors in this cheery bedroom are neighbors to one another. Yellow is the main color. Yellow-green and green are the two neighbors that are used. Note the way in which the three colors have been toned down so they are not harsh and vivid. This is important to remember when you are decorating a restful room like a bedroom.

How to use color *continued*

seldom find their way into home furnishings. Even the bright color in the rhyme is best softened just a bit.

In this living room, for instance, we use the predominant red—toned down a bit—for the walls and the arms of the upholstered chair. The rose-gray for the rug and the sofa, and the clear pink in the armchair and lamp shade provide the third interest. The patterned chair graciously *combines* these various tones of red.

The next step is to plan the *amount* of each color which should be used in the room. Choosing just the right amount of each of these three colors will give us a pleasing color scheme. One color—your main color—should predominate and the others be added carefully to it. Too much of any one color—or equal amounts of all three—can lead to very monotonous results.

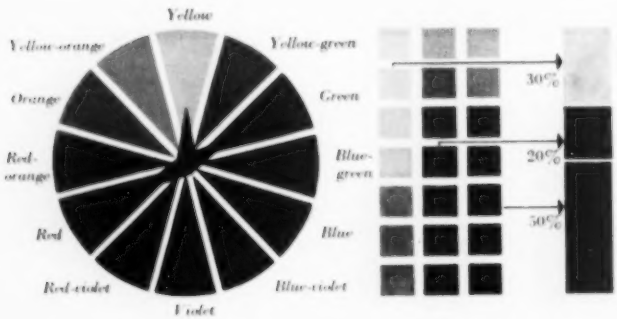
So here now is *Successful Farming's* basic color recipe: *Use approximately 50 percent of your main color, 30 percent of the second color, and 20 percent of the third color.* Once you're familiar with the three ingredients, you'll find that choosing a color scheme is just like cooking. You can alter the recipe, and season to taste.

To follow this basic recipe a little further, let us use it again to build the bedroom pictured on the right. This time, we work with a *neighboring-color scheme.* Yellow, yellow-green, and green are side by side on the color clock.

Selecting these three "friendly" colors from the clock, we use yellow as the main color, yellow-green as the second color, and green as the third. Since yellow is the predominant color, it goes into the slipcover on the chaise longue, the duster and canopy on the bed, and the vanity skirt—total, about 50 percent. The carpet in our second color, yellow-green, lends an added 30 percent. And the trim of green on the chaise longue, vanity seat, and lamp shades adds the final 20 percent. The quilt and wallpaper combine all three colors in their patterns and are counted carefully into each total.

Use of pattern frequently adds considerable interest to your room. In draperies, carpet, slipcovers, or wallpaper, a pattern helps to pick up the three colors in your scheme and tie them skillfully together. Don't overlook its possibilities. But when you're totaling, just be sure to count the colors right into the simple 50-30-20 recipe.

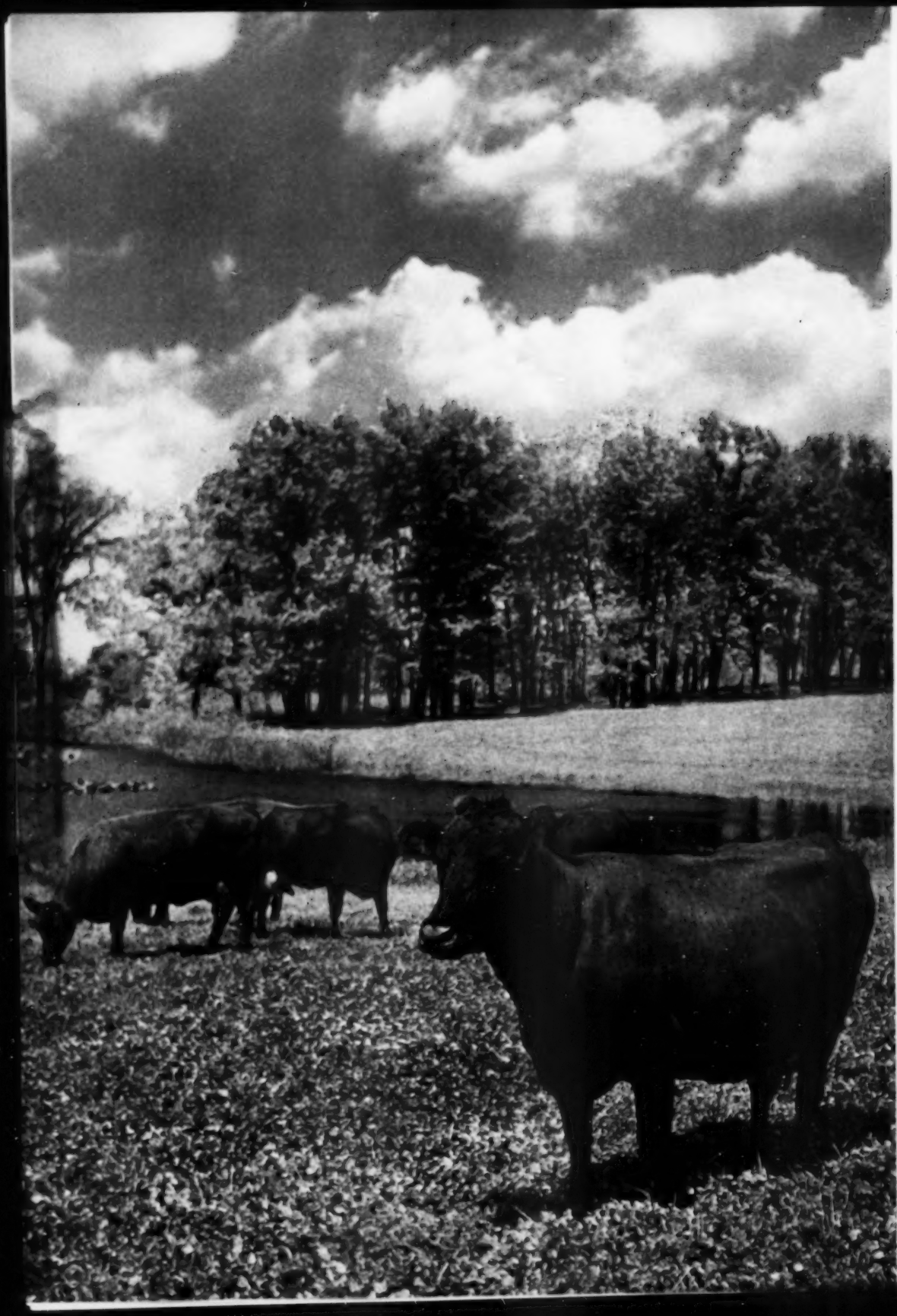
Now for the third possibility. The dining room on the page at right shows an *opposite-color scheme.* You'll notice that green becomes the main color in this room, with yellow as the secondary and red as the interesting "accent." Using green for the walls, and tones of the green in the carpet, gives us our 50 percent of the room in the main color. Add to this the yellow of the draperies—30 percent—and the sparkle of red in the chair seats and the accessories—20 percent. The [*Turn to page 67*



This is an opposite-color scheme

To reach this lively color threesome, we start with one main color, green. The second color, red, is found just opposite green on the color clock. And yellow, the third color in the trio, lies nearly midway in between. This type of color scheme offers the most dramatic contrasts of all. Test yourself to see if you can develop other groups on this same recipe.

Photographs: Photography, Inc.; Fletcher



Red Dane dairymen stress production more than appearance

By Dick Hanson

What has happened to the Red Danes? In February, 1946, *Successful Farming* first told the Red Danish cattle story. At that time, Red Dane cattle were winning respect from a few Michigan farmers who were the first to try the breed in this country. These farmers were crossing Red Danes with their grade dairy animals.

Now, six years later, Red Danes are firmly established on many Michigan dairy farms. The breed is spreading to other states, also. Why? Ask any Red Dane owner about the breed, and you'll immediately hear talk of *increased production*. That's the yardstick by which these dairymen judge the Danes.

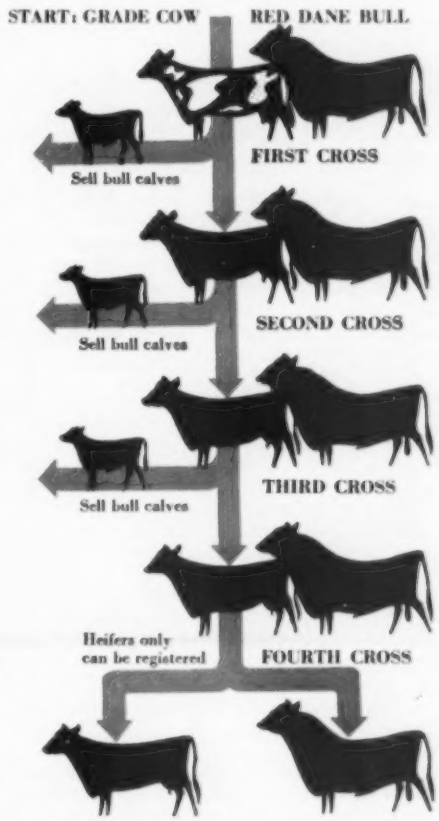
The Red Danish breeders have even carried their interest in high production into the show ring. At the Michigan State Fair where they've shown for the past two years, half the emphasis is placed on appearance and *half on the production record of the animal*. That's a new, and worthwhile, departure in the dairy-cattle show ring.

Here's a brief history of what has happened to the Red Dane breed in the United States. Twenty Red Dane cows and 2 bulls were hand-picked in Denmark to serve as the foundation of the new American breed. That was in 1936. Dean E. L. Anthony, of the division of agriculture at Michigan State College, made the selection.

These original 22 animals were placed on the U.S.D.A. experimental farm at Beltsville, Maryland. Bulls from this herd have been used in the breed-development program in Michigan. A. C. Baltzer, extension dairyman at Michigan State College, has been in charge of placement of bulls and the entire development program on farms in Michigan since it started in 1938. During that time he has supervised placement and breeding programs for 85 bulls.

The Red Dane program started on 14 farms in Sanilac County, Michigan. It soon spread to Alcona and Oscoda counties, and now has been established on farms in 28 counties.

Seven Red Dane bulls at the Michigan Artificial Breeders Cooperative, East Lansing, now are serving 4,500 cows artificially. Another 48 bulls are being used for natural breeding. These bulls are changed from farm to farm, usually at the end of one year. A total of 220 Michigan farmers have joined the American Red Danish Cattle [*Turn to page 120*



How they look and how to breed them

The picture on the opposite page shows some moneymaking Red Dane cows. These animals are deep-bodied and have shorter legs than most dairy breeds. Crossing a Red Dane bull on any breed of dairy cow will produce these characteristics in the offspring. That's one of the big advantages of the Danes. The drawing at the right shows the American Red Danish Cattle Association's requirements for purebred registration. Third-cross cows, fourth-cross bulls are eligible

Photograph: Lisanti. Drawings: Hizer

What you ask about dryers

By Maurine Harris

If you're one of the estimated million women who will buy a dryer during the coming year, you probably have some of the following questions on your mind. The answers are so convincing that you may soon find yourself joining with thousands of other busy farm women in praise of a worksaving clothes dryer in your home.

1. Does a dryer really save work? Yes! One university made a careful study of the time and steps taken to carry clothes to outdoor lines, hang them, take them down, and fold them. Then, using the same load of clothes, they recorded the time required for drying them in an automatic dryer. Conclusion: It is possible to save *23* eight-hour working days a year by turning this work over to a dryer. For line drying, it took 625 steps to put out and take in a typical (8-pound) load of clothes—but, *with a dryer, only three steps were required!* And any user you know will testify to the saving in stooping, straining, lifting, reaching, and "weather watching."

2. Is a dryer hard on the clothes? Tests show that dryer-dried clothes last just as long and keep bright colors better than do clothes hung outdoors on the line. Taking clothes out before they're overdried prevents excess shrinkage. Dryers have a gentle tumbling action and even temperature. Outdoor drying often means reckless whipping by strong wind, fading by bright sunrays, clothespin distortion, and freezing.

3. Will white clothes stay white without sunshine? Yes! Yellowness and grayness in clothes are most likely caused by the way clothes are washed, not by the drying method. Soft water, the right kind and amount of detergent, thorough rinsing—and an occasional bleaching—will keep clothes beautifully white regardless of how they are dried. Using the dryer may keep them even whiter, sheltering them from normal dust and soot in the air.

4. Do dryer-dried clothes have a "clean" smell? Yes! Chances are you would be unable to tell them from line-dried clothes by smell alone. Clothes from a dryer are actually cleaner, because they have not been exposed to dirt and insects in the air. Also, the high temperatures (and, in some dryers, an ultraviolet lamp) destroy many germs during the drying time.

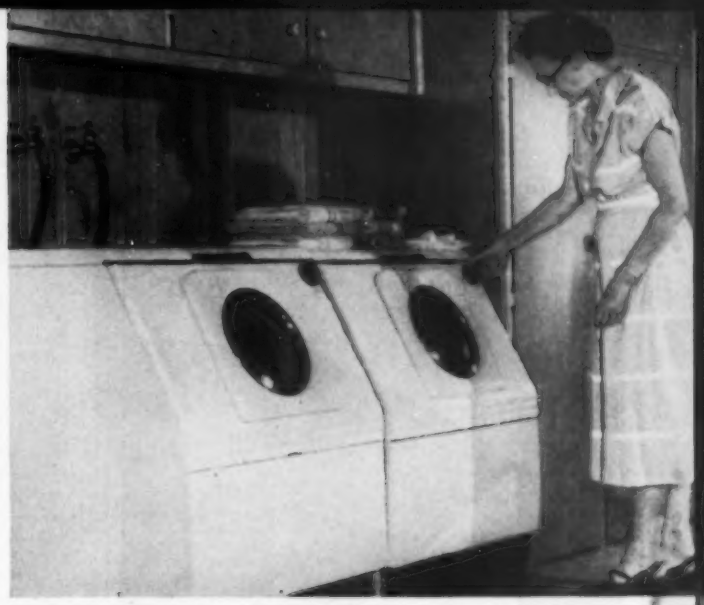
5. Do I have to have an automatic washer to use a dryer successfully? No, many women—including two of those pictured here—use their dryers with wringer-type washers with complete success. The amount of water remaining in clothes after washing determines the length of time it takes to dry them. Some spin-dry and automatic washers take out a high percentage of the wash water, so the clothes can be dried quickly. But a good wringer can also do a good job, preparing clothes for drying in a reasonable length of time. A wringer with adjustable pressure enables you to get more water out of heavy materials.

6. Where should a dryer be located? Most any room suitable for laundering is fine for a dryer. The most logical arrangement is for the dryer and washer to be side by side so you will waste no steps walking between them. A dryer with a side-opening door should be placed in relation to the washer so you won't need to walk around the open door each time you put in the clothes. [*Turn to page 98*

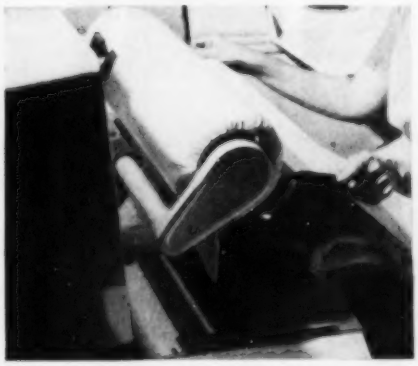
Her electric dryer helps Mrs. Harold Florin, near Avalon, Wisconsin, keep bedspreads, blankets, and rugs billowy new. Quilted robes, mattress pads come from dryer "puffy" soft

Photographs: Suter, Hedrich-Blessing, Pease, Hufnagle

Even your lacy dainties can be dried automatically. No fraying of seams, fading, or discoloring; no snagging or staining by clothespins

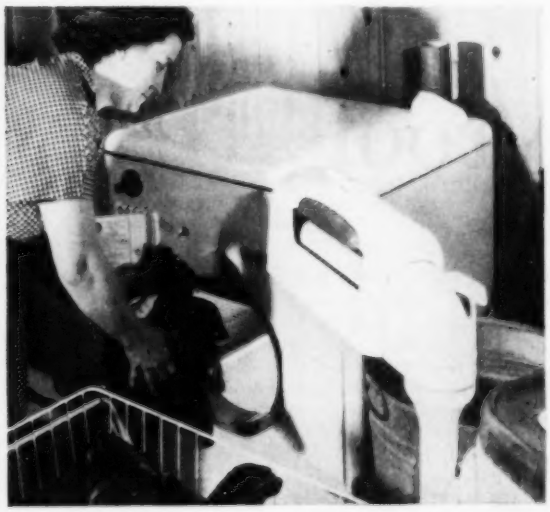


Any day is easy washday for Mrs. Harvey Moeckley, a busy Iowa farm wife. No "clothesbasket backaches"—she just shifts each load of clothes from washer to dryer, sets one dial which automatically controls the time and temperature



Damp-dry things that need ironing first; take them out and iron them without wasting time to sprinkle. Let the other loads dry while you iron

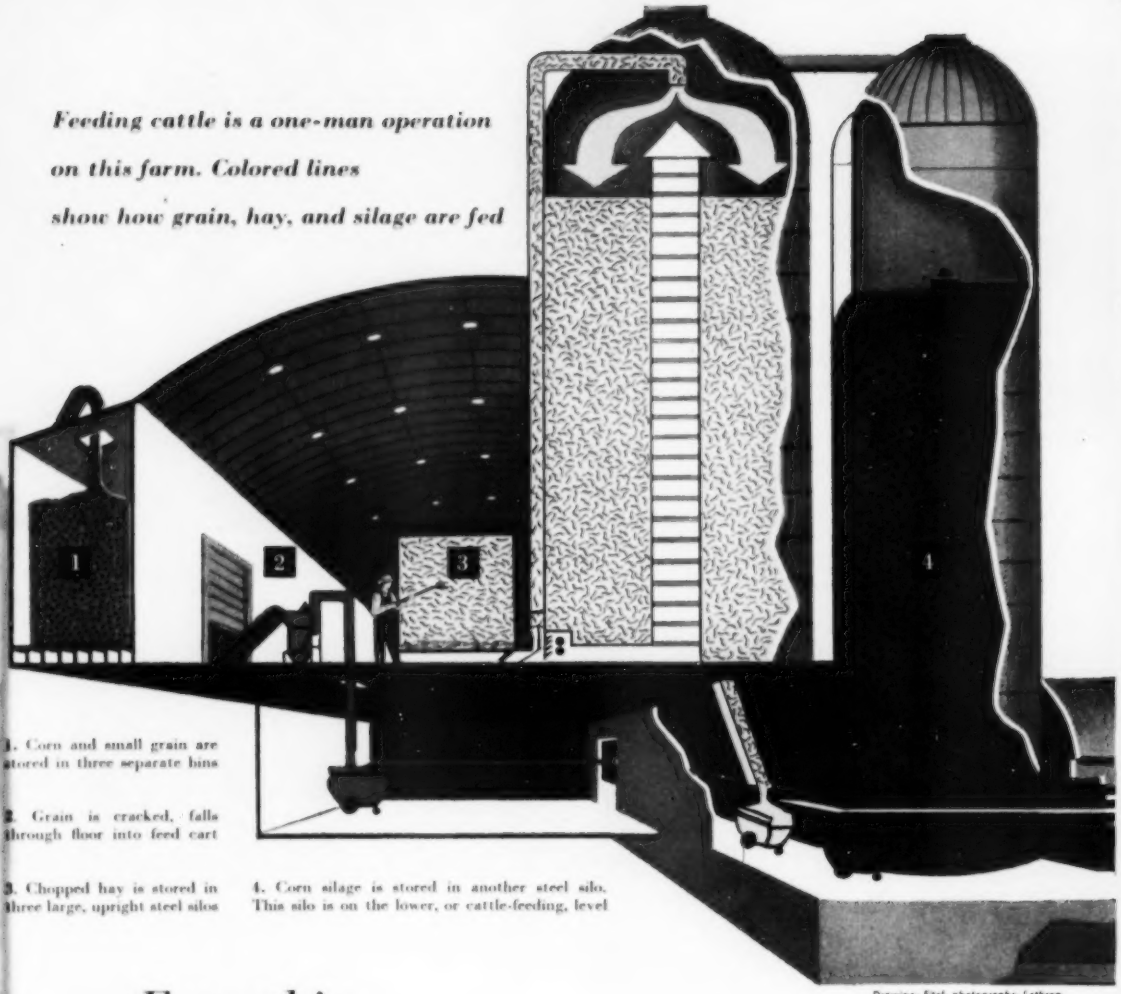
A dryer does more than just remove moisture; its slowly turning drum tosses clothes gently, fluffs up nappy materials, leaving them beautifully soft and luxurious. Look what an hour in the dryer does for this load of wet towels



A secret in getting the most help from your dryer: Shop for clothes that need no ironing—corduroy, flannel, seersucker. Dryer keeps them new-looking, always ready to wear

With three sons helping Dad outside, overalls stack up fast for the Dillons who live near Elkhorn, Nebraska. But the gas dryer makes light work of whole load of them as they come from washer

Feeding cattle is a one-man operation on this farm. Colored lines show how grain, hay, and silage are fed



1. Corn and small grain are stored in three separate bins

2. Grain is cracked, falls through floor into feed cart

3. Chopped hay is stored in three large, upright steel silos

4. Corn silage is stored in another steel silo. This silo is on the lower, or cattle-feeding, level

Drawing: Edel, photographs: Lothrop

Everything Under one roof

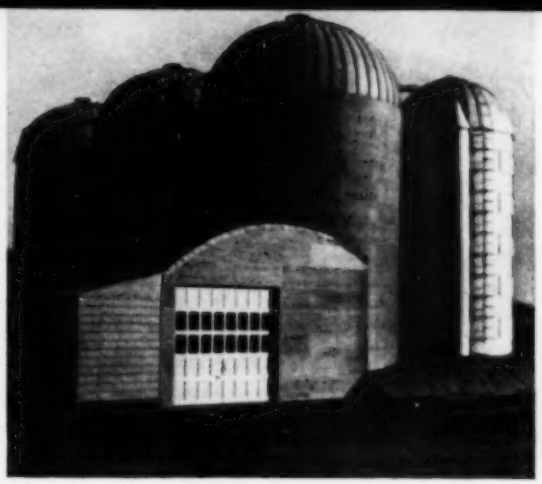
By Dick Hanson

Three years of ordinary cattle feedlot operations were enough to convince Frank Lothrop and his father, of Crete, Nebraska, that either conditions would improve or their cattle would have to go. The practice of having their cattle spend 3 months of the year battling snow and another 3 months in the mud wasn't their idea of the way to raise profitable beef.

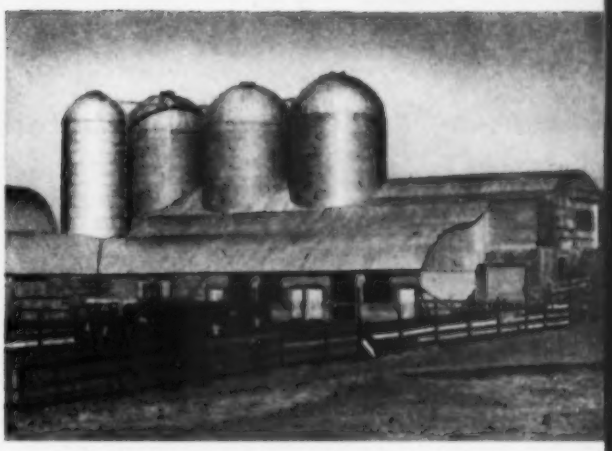
To overcome the weather problem—and lower labor costs at the same time—the Lothrops began a building program that has now continued for 5 years. And they aren't through yet. But their efforts so far have shown them the wisdom of good shelter and feed-handling methods.

About 90 percent of the construction work was done by the Lothrops during the summer when Frank was on vacation from the University of Nebraska. The Lothrops chose steel, Quonset-type buildings. They had previously built a 40′x100′ Quonset for hay and machinery and were enthusiastic about the arch construction, noncenter-support roof.

At the present time, the building program adequately houses the cattle and their feed. Two corncribs have a combined capacity of 2,200 bushels of ear corn. The cribs are steel, 10′ high, 36′ long, and 8′ deep, with perforated floors and walls for easy drying of soft corn. The cribs are filled by front doors as well



This picture shows the first level of this feeding setup. Big door is the entrance to the alleyway where the chopped hay is unloaded

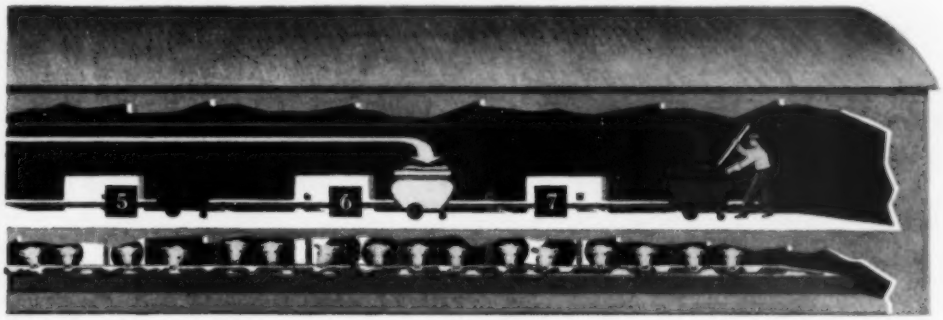


Opposite side of building from picture at left is shown here. Smallest silo is used for storing corn silage, other three are used for chopped hay

5. Corn silage is dumped into the feed cart. The cart is pushed out to the cattle in the handy feeding shed

6. Chopped hay falls through a hole in the floor and into a feed cart for delivery to the cattle-feeding bunks

7. Red line shows how the grain is handled from the storage bins to the feed bunks in the feeding shed

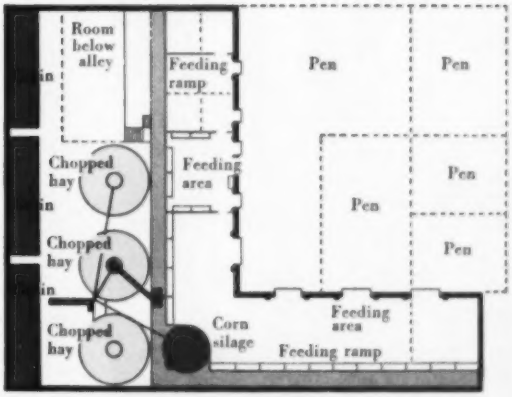


as the roof doors. A portable elevator saves scooping.

If the Lothrops decide to change over to shelling corn in the field, these cribs can easily be converted to forced-air drying, with the blower system moving air through the perforated floor.

The small-grain bin is identical in construction to the corncribs, except the floor perforations are smaller and the wall sheets are solid. This bin can also be used for forced-air drying. The bin holds 4,400 bushels.

Three silos are used for storing the chopped hay. The semidry hay is chopped in the field, brought in, and unloaded by an automatic unloader. Then it's blown into one of the silos. The silo walls are perforated. In the center of each silo is a cone-topped 5'x5' vertical wooden slatted chute for spreading the blown-in hay evenly. This chute is connected to the silo entrance by a horizontal chute. A 36" fan in the entrance chute draws air through the wall perforations, through the hay, out the entrance. [*Turn to page 76*



Floor plan of the entire feeding system is shown above. Silos used for chopped hay are shown in yellow. Silo for corn silage is brown

With a high school like Labette in your community,

Who wouldn't stay

Against a 50-percent dropout in some farm high schools, less than 5 percent leave Labette High before graduation

Vocational-agriculture students operate farm adjoining school, fatten, butcher, and freeze top-grade beef and hogs for cafeteria use. Below, Lorne Schlatter vaccinates one of the Herefords

Mechanics course equips boys for good-paying jobs. Leon Pearce, pictured with Instructor Harry Zook, plans to work before buying his own farm. The demand for graduates is greater than the supply

in school?

By Betty Carlson

According to the National Board of Education, less than 15 percent of the boys and girls who come from Midwest farms go to college. This leaves with the high schools the heavy responsibility of preparing most of our young people for an increasingly complex and specialized society.

Are the high schools doing the job? Is the farm boy or girl getting the education he needs to make the most of his abilities, to build a strong home, and become a valuable citizen?

Some are. *Many are not!* Some Midwestern rural high schools report that as many as 50 percent of the boys and girls from farms drop out of school *before they graduate!*

According to Herman Harrison, superintendent of Labette County Community High School, Altamont, Kansas, the [*Turn to page 96*

Journalism students, tomorrow's reporters, publish weekly school paper. Print shop is equipped with presses, an ink laboratory, complete darkroom, and linotype machine. John Bevens is at keyboard

Photographs: Pease

Commerce, which includes secretarial training and use of business machines, is a favorite course of many of the girls who want a career or a job before they marry

Electronics student Stanley Terril repairs a broken radio brought in by farmer. Many boys change courses as many as four times before they find field they like

Nutrition and foods, clothing, and prenursing instruction prepare tomorrow's homemakers. Some girls go into teaching, nursing, or home-economics jobs. Pictured, Zora Lou Martin and Mildred Klotz

Favorites for everyday eating

By Susan Menne

It's fun to turn out a gay company meal now and then, but it's the meat and potatoes of everyday living that provide the real challenge for the busy farm wife.

How often have you wished for more of the simple recipes that call for cooking and serving meat and vegetables in one happy combination? Such is the kind of cooking that gives you more time to devote to community, church, and family affairs, and to sewing, handicrafts, or other hobbies. More important, many of you have written us that it's the kind of cooking your families like best.

So here, at right, are three old stand-bys. They have been your favorites in the past, and we hope still are. They can't be beat for plain good eating.

Each of these dishes needs only a crisp salad, a dessert, and a glass of milk to make it a complete meal. You'll find each recipe the basis for a parade of satisfying dinners.

Bar-B-Q-Rib Dinner

Serves 6

Select . . . . **5 pounds pork ribs** in one piece
Bring ends together and lace with heavy cord to form crown.
Split down 2 inches between every two ribs.
Combine for stuffing:
3 cups leftover corn-bread crumbs
2 cups cooked corn, drained
1/3 cup chopped green pepper
1/2 cup chopped onion
1 garlic bud, finely chopped
1/2 cup warm water
salt and **pepper** to taste
Mix well.
Fill crown with stuffing.
Place crown in roasting pan and bake at 450° for 30 minutes.
Reduce heat to 350°.
Baste with following sauce:
Saute . . . **1 large onion,** diced
1/2 cup chopped celery, in
2 tablespoons butter or **margarine**
Add . . . . . **1 8-ounce can tomato paste**
2/3 cup catsup
1 cup water
2 tablespoons brown sugar
1/2 teaspoon dry mustard
1 tablespoon Worcestershire sauce
Mix thoroughly; heat mixture through.
Baste ribs with sauce every 15 minutes for 1 hour.
Serve rib crown with **buttered carrots** and **onions.**

Boston Baked Beans

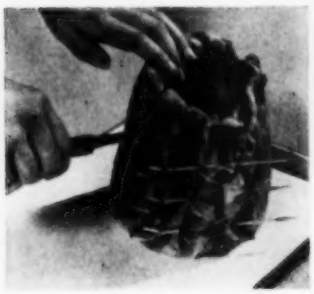
Serves 6

Wash . . . **4 cups navy beans**
Soak overnight in cold water.
Drain and cover with water.
Cook slowly until just tender.
Save bean liquor.
Turn half the beans into bean pot.
Slice . . . . **1/2 pound salt pork**
Bury part of pork in beans.
Combine **1 tablespoon salt**
1/2 cup brown sugar
1 teaspoon dry mustard
4 tablespoons molasses

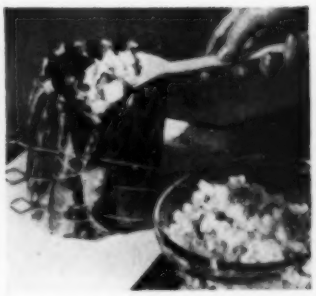
[*Turn to page 89*

Your step-by-step guide to preparing Bar-B-Q-Rib Dinner →

Photographs: Stanley

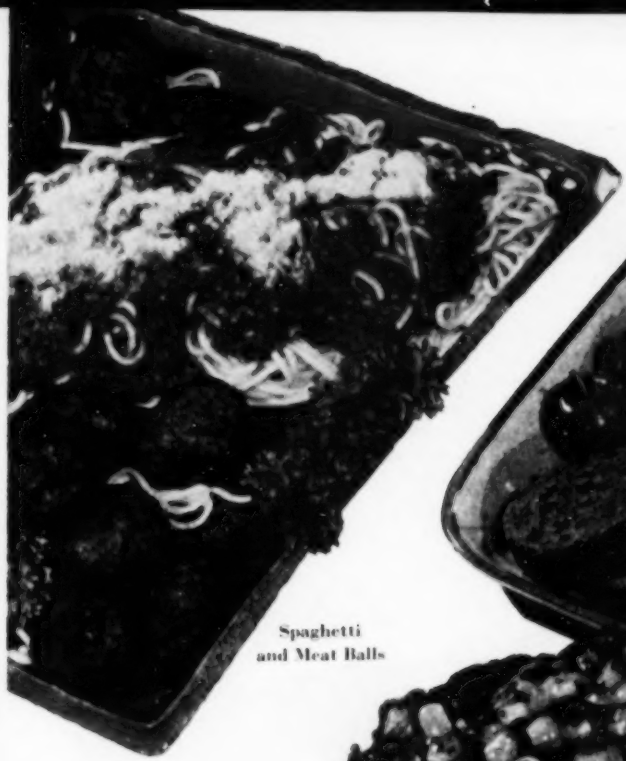


Bring the ends of the flat piece of pork ribs together to form a crown. Lace the meat with heavy cord and several skewers



Into crown goes a stuffing of corn-bread crumbs and cooked corn, liberally seasoned to take care of sharpened fall appetites

During the final hour of baking, baste the crown every 15 minutes with the tangy, tempting barbecue sauce in recipe above



Spaghetti
and Meat Balls

Boston Baked Beans
With Brown Bread

Bar-B-Q-Rib Dinner

OF ALL THE GALS WHO DO THEIR WASH...

She spreads the cleanest cloth in town

. . . she swears by TIDE!

Tide GETS CLOTHES CLEANER THAN ANY SOAP!

CLEANEST WASH IN TOWN!

TIDE not only washes clothes cleaner—but whiter, too, in hardest water!

CLEANER CLOTHES! When you rinse out a Tide wash, you've got cleaner clothes than any other woman will get with *any* soap of *any* kind. And here's why—Tide not only gets out the ordinary dirt, but *removes dulling soap film*, as well!

WHITER, TOO! Tests prove Tide gets clothes *whiter* than any soap in *hardest* water. What's more, after just one Tide wash, soap-dulled colors come *brighter!* Millions of you women have proved these Tide miracles. You've seen the proof in your husband's cleaner, whiter shirts . . . in your own bright wash prints and household linens.

NEW MILDNESS FOR HANDS! Yes, Tide is *kind* to hands—now milder than ever before. Tough on dirt—but easy on your hands—that's Tide! Get Tide today . . . and hang the cleanest wash in town on *your* line!

ALWAYS BUY TWO... ONE FOR LAUNDRY... ONE FOR DISHES!

Chocolate-Mocha Cupcakes

Makes 2 dozen
(not pictured)

Sift together:
1¾ cups sifted flour
½ teaspoon baking powder
1 teaspoon soda
1 teaspoon salt
1 teaspoon cinnamon
½ cup cocoa
1⅓ cups sugar
Add . . . . . **½ cup shortening**
½ cup cooled strong coffee
⅓ cup buttermilk
Blend and beat at medium speed for 2 minutes on electric mixer (or 300 strokes by hand).

Add . . . . . **⅓ cup buttermilk**
2 eggs
1 teaspoon vanilla
Blend and beat for 2 minutes at medium speed on electric mixer (or 300 strokes by hand).
Fill paper-lined muffin tins ½ full.
Bake at 350°(moderate) for 30 minutes.
—*Miss Elsie Kodra, New York*

Pineapple-Coconut Cupcakes

Makes 2 dozen

Cream . . . **½ cup shortening** with
1 cup sugar
Add . . . . . **2 beaten eggs**
1 teaspoon vanilla, creaming well
Sift together:
2½ cups sifted cake flour
3 teaspoons baking powder
½ teaspoon salt
Add alternately with:
¼ cup water
½ cup pineapple juice
Add . . . . . **⅔ cup (No. 1 can) crushed pineapple,** drained
1 cup shredded coconut
Fill paper-lined muffin tins ½ full.
Bake at 350° (moderate) for 25 minutes.
—*Mrs. C. E. Countryman, Iowa*

Spicy Applesauce Cupcakes

Makes 1 dozen

Cream . . . **⅓ cup shortening**
1 teaspoon vanilla
Add . . . . . **¾ cup sugar,** gradually
Cream until light.
Add . . . . . **2 eggs,** one at a time
Beat well after each addition.
Sift together:
1⅓ cups sifted flour
1 teaspoon baking powder
½ teaspoon soda
½ teaspoon salt
1 teaspoon cinnamon
½ teaspoon nutmeg
¼ teaspoon ground cloves
Add dry ingredients alternately with
¾ cup unsweetened applesauce
Mix until well blended.
Fill greased or paper-lined muffin tins ⅔ full.
Bake at 350° (moderate) for 25 minutes.
—*Miss Bertha Rohrich, Nebraska*

Special sandwiches

So good, they'll take their place at the top of the list for request appearances in the lunch box

Egg-salad Sandwich Filling

Makes ½ cup

Blend together:
¼ cup chopped chives
1 hard-cooked egg, chopped
4 slices crisp fried bacon, crumbled
1 tablespoon mayonnaise
Spread on **buttered bread** or **buttered coney buns**
Include . . **leaf of lettuce** in each sandwich, if desired.
—*Miss Bertha Rohrich, Nebraska*

Piquant Liver Sandwich

Makes 1¼ cups

Grind . . . . **½ pound cooked beef liver**
Combine with
2 tablespoons minced onion
¼ cup chopped celery
½ teaspoon salt
dash of pepper
6 tablespoons mayonnaise
Spread on **buttered bread** or on **buttered toast triangles** or **rounds.**
—*Mrs. Ralph Thompson, Washington*

Fruit-special Sandwich Filling

Makes ¾ cup

Cream . . . **3-ounce package cream cheese** and
4 teaspoons milk until soft
Add . . . . **¼ cup seedless raisins**
¼ cup chopped walnuts
1 teaspoon grated orange peel
Spread on **buttered fruit bread.**

—Mrs. Maude Ingebretson, South Dakota

School-day Sandwich Filling

Makes about 1 cup

Grind . . . **1 cup peanuts**
3 medium carrots through food chopper
Moisten with
¼ cup mayonnaise
Spread on **buttered bread.**

—Mrs. Harry C. Goertzen, Nebraska

He-man Sandwich Filling

Makes 1⅓ cups

Blend together:
1 cup small-curd cottage cheese, undrained
¼ cup crumbled Roquefort cheese
½ cup crisp fried bacon, crumbled
1 tablespoon sliced stuffed olives
1 tablespoon mayonnaise
Spread on **buttered bread**
Include . . **leaf of lettuce** in each sandwich.

—Mrs. Ralph Thompson, Washington

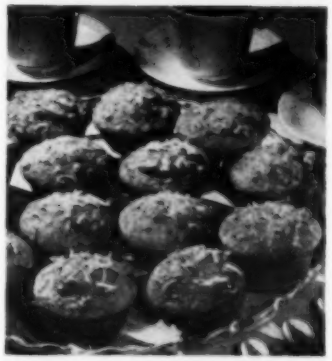
Cupcakes for lunch

California Cupcakes

Makes 10 to 12

Cream . . . **¼ cup shortening**
½ cup sugar
Add . . . . **1 beaten egg**
1 tablespoon grated orange peel
Beat well.
Sift together:
1 cup sifted flour
¼ teaspoon salt
½ teaspoon baking powder
½ teaspoon soda
Add flour mixture alternately with
½ cup orange juice
Add . . . . **½ cup chopped walnuts**
Fill greased or paper-lined muffin tins ⅔ full.
Bake at 350° (moderate) for 25 minutes.
Remove from oven; sprinkle with topping made as follows:
Mix . . . . **3 tablespoons sugar** with
2 tablespoons orange juice
1½ teaspoons grated orange peel.

—Mrs. L. W. Foubert, Iowa



Cupcake Surprise

Makes 2 dozen

Soften . . . **½ cup shortening**
Sift in . . . **2 cups sifted cake flour**
1¼ cups sugar
3 teaspoons baking powder
1 teaspoon salt
Add . . . . **⅔ cup milk**
Beat at medium speed on electric mixer for 2 minutes (or 300 strokes by hand).
Add . . . . . **2 eggs**
⅓ cup milk
½ teaspoon almond extract
Beat at medium speed on electric mixer for 2 minutes (or 300 strokes by hand).
Fill paper-lined muffin tins ½ full.
Bake at 350° (moderate) for 25 minutes.

Cool; cut out center about ¾ inch in diameter.
Fill centers with **chocolate** or **vanilla pudding**
Replace cutout part.

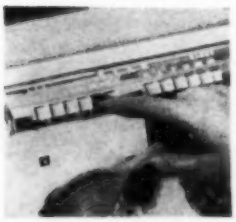
—Mrs. O. J. Sprague, Wisconsin

MASTER OVEN, COMPANION OVEN—both equipped for baking, roasting, charcoal-type broiling. See the new "Constellation," only $349.95, or approximately $4.00 a week after small down-payment! Other G-E Ranges as low as $209.95*. At your G-E retailer's. General Electric Company, Louisville 2, Ky.

NOW! G-E TWO-OVEN Cooking at a new low price!

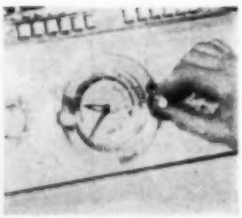
AUTOMATIC ELECTRIC

"SPEED COOKING" RANGES



PUSHBUTTONS!

At this new low price, too! Nothing could be simpler! You just press a button to cook. A separate button for each heat—from high, down to warm. You always get the *exact* temperature you want for best results!



AUTOMATIC OVEN TIMER!

No timing worries. No waiting around. Master Oven is automatically timed. Just pop your meal into the oven and set the "clock." Your oven goes ON and OFF automatically. Dinner's ready—right on time!

TWO Complete Ovens! Pushbutton Controls!
Clean! Fast! Good Meals So Easy To Get!

It's new! The G-E "Constellation"! "Speed Cooking" plus two-oven convenience! And *all* this at a new low price!

Just count the advantages of General Electric 2-oven cooking!

- **You can bake foods at different temperatures—at the same time.**
- **You can turn out more cookies, pies, cakes on "baking day"—in less time.**
- **You can bake and broil simultaneously, with full oven capacity!**

With two ovens to cook for you, you'll wonder how you ever managed with only one! And remember—the new G-E "Constellation" gives you *two separate and complete ovens!* One mammoth-sized, the other medium-sized!

**Price and specifications subject to change without notice.*

You can put your confidence in—

GENERAL ELECTRIC

"THE BEST ANGLE IS COAL BURNED THE MODERN WAY!"

Whether you use central heat or space heaters, the latest coal-burning units give you the world's best heat with more convenience, economy and comfort!

● **Best space heaters of them all!** Heat up to 36 hours on one filling. You light the fire but once a season! Automatic draft regulator keeps giving you the degree of warmth you like. Coal feeds itself. Humidifier gives you proper humidity.

● **Inexpensive modernization for your present furnace!** $24.20 buys a new automatic damper regulator which you can install in a few hours. Thermostat control keeps rooms at temperature you select. Fuel consumption cut as much as 15%. For less than $60 you can buy a clock heat regulator that, in addition to above jobs, automatically brings temperature up in morning, reduces it at night.

● **Newest coal furnace is a modern marvel!** It's fully automatic! Stoker feeds coal directly from bin to furnace. Controls hold temperature where you want it, regardless of outside weather. They lower temperature automatically at night, raise it in the morning. Glowing flame, produced by scientifically exact mixture of coal and air, produces more heat with less fuel.

7 good reasons why coal is the most popular fuel in up-to-date farm homes

1. Steadier warmth—no "on-again, off-again" flame!
2. Fewer "cold pockets"—fewer colds!
3. Automatic with stokers and controls!
4. Easiest and safest to store!
5. Lowest price almost everywhere!
6. America's vast reserves make supply dependable!
7. America's dependable supply assures price stability!

FOR ECONOMY AND DEPENDABILITY

YOU CAN COUNT ON COAL!

BITUMINOUS COAL INSTITUTE, A Department of National Coal Association, Washington, D. C.

Wage the peace

From page 33

you how to secure an F.A.O. speaker for local clubs or organizations.

4. Send a heifer or a goat abroad. Methodists, Catholics, Baptists, Brethren, and other churches combined to form the Heifer Project Committee. Through it, you or your community can help restock the lowland farms of Europe with dairy cattle and the mountain farms of Asia, North Africa, South America, and Europe with goats. Bred heifers cost between $250 and $350. Goats cost $50. You can obtain full details on this long-range neighborliness program from Heifer Project Committee, New Windsor, Maryland.

5. Create foreign friendships through Pen Friends. The idea of Pen Friends originated and is carried through Associated Country Women of the World. You can locate the chairman in your state through The Farm Bureau, Grange, or Farmers Union. You will be introduced, via mail, to a rural woman of your own age and same interests in a foreign country, and will be given an opportunity to develop a correspondence and friendship with her.

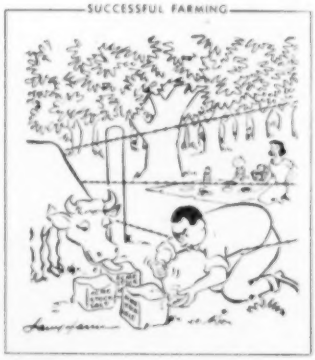
The 4-H is sponsoring a similar program for rural young people from 10 to 30. It is known as International Pen-pal Program. To request names, contact your county extension office.

6. Learn the facts about the United Nations and "Point Four." Two excellent booklets describing the objectives and organization of United Nations and The Point Four Program may be ordered through the Superintendent of Documents, United States Government Printing Office, Washington 25, D.C. They are: *Facts and Figures About the United Nations* (5 cents) and *The Point Four Program* (15 cents).

Keep well informed on foreign affairs. Read and listen to get "the facts."

7. Join Pennies for Friendship. This is another project for the ladies, organized to support the Associated Country Women of the World. You can learn the

[*Turn to page 60*



...and still champion!

the OLIVER *Superior Drill*

The Oliver Superior No. 26 drills grain, sows grass, distributes fertilizer all at the same time.

The Double-Run Force Feed.

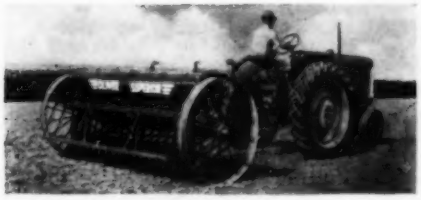
Down through the years . . . so long that few living farmers know when it began . . . the Superior Grain Drill has been accepted as the best that money can buy.

One big reason is the *double-run force feed,* by far the simplest, sturdiest, most accurate device ever made for sowing grain. Try as they would, others could never equal it.

They haven't yet. With this great advantage—and the many others added through the years—the Oliver Superior remains the champion of them all.

Check These Superior Features:

Double-Run Force Feed. One side for big seeds, one side for small . . . any size from clover to corn. No spurts or skipping . . . no grinding or cracking . . . no waste seed!



The Oliver Superior No. 38, for seeding large acres. Sixty different feeding rates. Available with fertilizer attachment.

Choice of Feeding Rates. Twenty-six accurate feeding rates with the Superior "26" . . . sixty with the "38" . . . each with a simple setting. Ninety rates for fertilizer—10 to 1480 lbs. per acre!

Choice of Furrow Openers. Open or closed delivery, single or double disc-openers for every kind of soil.

Choice of 3 Wheel Sizes. (1) Light-riding 48" steel wheels. (2) Rubber-tired wheels for 36" implement tires. (3) Wheels for popular size automobile tires.

Choice of Lifts. Standard mechanical lift or optional "Hydralectric," controlled by finger tip from the tractor seat. For full details, send coupon below—and see your Oliver Dealer.

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☐ Oliver Superior 26 Drill
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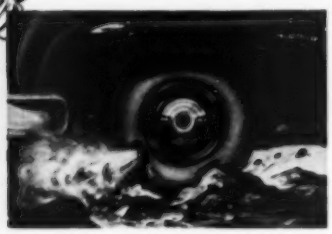
ARMSTRONG, one of America's oldest tire manufacturers, leads the industry with the longest, strongest user protection ever offered on any famous passenger tire —*unconditionally guaranteed for 18 months*... at *no* extra cost! Protect your family—protect your car. Get Armstrong Tires!

UNCONDITIONALLY GUARANTEED FOR 18 MONTHS against all road hazards



ARMSTRONG PASSENGER TIRES—with super-strong Rhino-Flex construction—give you *this* sensational guarantee with *no limit on mileage!*

DON'T TAKE RISKS! Safeguard your car against blowouts. Look up your Armstrong Dealer in classified phone book—get free inspection *now!*

ARMSTRONG TRUCK AND TRACTOR TIRES—UNBEATABLE VALUES!

ARMSTRONG TIRES

ARMSTRONG SAVES YOU MONEY! Get Rhino-Flex truck tires—low initial cost, low service cost, longer wear. And remember, Armstrong mud-free, power-pulling tractor tires are *unconditionally guaranteed for 2 years!*

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Wage the peace

From page 58

details through your farm organization. In Ohio last year, women of the state's Farm Bureau raised over $100 through penny contributions.

8. Find out what your farm organization is doing about world neighborliness. Like the churches, the national farm organizations are doing splendid work in this great crusade to "wage the peace." For example, the International Federation of Agricultural Producers (I.F.A.P.), representing farm organizations in 28 nations, works closely with the United Nations and international groups in the interests of the world's farmers and agriculture. In the programs like theirs may be ideas for you and your community. Get in touch.

9. Help to send a young ambassador. The International Farm Youth Exchange (I.F.Y.E.) sends groups of American farm girls and boys abroad and finds rural homes for foreign farm youths here. Here is diplomacy on the personal level—a free interchange of ideas and experiences through friendship. This program is sponsored by the National 4-H Club Foundation, the Extension Service, and the state land-grant colleges. Half the cost is borne by sponsoring groups, the rest by interested individuals, industries, and organizations. Details are available either through your state extension service or at the 4-H Club Foundation, in care of Extension Service, United States Department of Agriculture, Washington 25, D. C.

10. Get in line with your co-op's visitor project. Many of the big cooperatives now assign special staff officers to the job of showing foreign visitors and exchange students how their business functions. If you're proud of your co-op projects, let headquarters know that you'd like to entertain some of these visitors down your way. Again, it's a two-way deal. You'll learn as much as you tell ... and perhaps more.

11. Find out what state colleges are up to. Every one of our 52 land-grant colleges has a "foreign contacts" man whose sole job is to arrange the study courses and state-wide trips of farm students from abroad. He needs your cooperation. Moreover, the colleges in your state have one or more staff men conducting work projects on farms in other countries. Perhaps you've developed techniques on your place that will be of help to them. It won't cost you anything to find out. And too, those foreign work teams are discovering techniques and crops that can help you.

12. Take a long look at your farm routine. Have you developed any short cuts or simple methods around your place that might help other farmers toward "Freedom From Want"? If you think you

have, write the editors of *Successful Farming* about it. They'll be glad to send your ideas and your name along to F.A.O. and U.S.D.A. technicians who can put them to work. Or write direct, if you prefer.

13. Be a foster parent. You can be responsible for giving some small victim of this war-scarred world his chance to become an adult. Only $15 a month will pay the expenses of one child. Thousands need a foster parent, need to "belong" and be remembered. You as an individual or organization will be rewarded a thousand times. Write Foster Parents Plan for War Children, 55 West 42nd Street, New York 18, New York.

14. Develop adult-study classes. A vast new world of electronics, photosynthesis, sun energy, mechanics, and building design has opened on the farm during the past decade. The big job today is to translate the discoveries of scientific law to farm practice on a world-wide plan. Our public schools—the finest on earth—can be utilized for adult studies and discussions toward this vital area of world rural betterment.

15. Develop your own public-relations program for agriculture. Although two-thirds of the people on *earth* are farmers, the majority of the people *in the United States* live in cities and towns. A vital part of the world-neighborliness program is the task of educating city people about universal farm problems and farm ideals. National farm organizations are beginning to develop programs along this line. You can help the task along in your community and through your own city contacts.

No exhaustive list is this. We must each be alert to the opportunities that present themselves—these and others—and ready to take advantage of them. One world today calls for aggressive, imaginative action. It calls for Christianity practiced individually and collectively through the spirit of world neighborliness. **END**

It's the truth

Rubber dentures for horses are a just-announced invention. Designed for movie horses, the dentures keep the noise of grinding teeth from the sound recordings. —*Gus Larson.*

Build new Walls and Ceilings at low cost

with Johns-Manville Panels and Plank. Predecorated . . . have flame-resistant finish for added safety.

The HOME IDEA BOOK shows how to remodel and build, inside and out, with modern J-M building materials. Mail Coupon!

This fascinating 64-page book shows how you can cover old, unsightly walls and ceilings without muss or fuss, or build new rooms inexpensively with J-M Panels and Plank. It tells how these ready-to-use materials are predecorated in pastel colors. It illustrates the famous J-M "Lightning" joint that speeds application and conceals all nails or staples. (Check coupon for instruction sheets for applying J-M Panels and Plank.)

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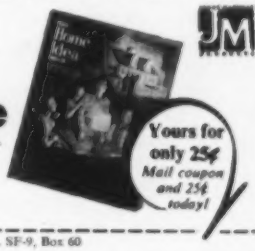
Ideas for roofs—for beautiful exteriors! Ideas for kitchens, bathrooms, bedrooms, extra rooms, new homes . . . many other features!



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Now...only the FAR MORE POWERFUL FERGUSON "30" can have the famous FERGUSON SYSTEM with

Exclusive **SSC***

SUCTION-SIDE CONTROL

BIGGER

★ in power
★ in performance
★ in economy

*As a result of the consent judgment in the recent settlement of the Ferguson vs. Ford lawsuit, Ferguson, and *only* Ferguson, can now have the famous Ferguson System. If you want the *advantages* of the Ferguson System, the Ferguson "30" is the only tractor that can give them to you.

Remember this . . . the Ferguson System is far more than 3-point linkage. True, this linkage is a part of the Ferguson System that can be seen. But, the Ferguson System control center is *inside* the tractor, the very heart of the machine.

There are other tractors on the market that are and will be similar in *outward* appearance to the Ferguson. *Don't be fooled by these outward appearances!* A *vital* and *exclusive* feature of the Ferguson System—the hydraulic pump with *Suction Side Control*—is buried deep within the tractor.

Your Ferguson Dealer will arrange a "Showdown" demonstration of the new and far more powerful Ferguson "30" on your farm. He will prove to you the advantages of the Ferguson System with *exclusive* Suction Side Control.

The one and only, complete
FERGUSON SYSTEM
gives you these 5 important features:

1. Penetration without excess built-in weight
2. Traction without excess built-in weight
3. Finger tip and automatic draft control
4. Tractor's front end stays down
5. Automatic protection against hidden underground obstructions

This Booklet Tells the Story

Important facts about the Ferguson System and *Suction Side Control* are clearly and simply explained in this new booklet. Ask your Ferguson Dealer for a copy of "The *Inside* Story of the Ferguson System with Exclusive Suction Side Control". *Harry Ferguson, Inc., Detroit 32, Mich.*

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FERGUSON TRACTOR
and 63 Ferguson System Implements

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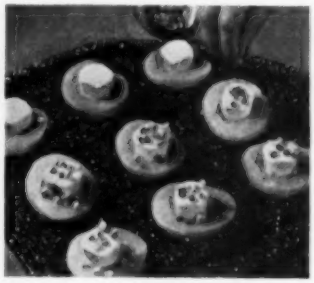
Tips for the cook

Ideas that add sparkle to meals and make cooking easier, quicker

Try this glorified applesauce. For a flavor treat with pork, stir in ½ cup green mint jelly with 2 cups applesauce (only slightly sweetened). Not a dessert but a grand meat accompaniment.

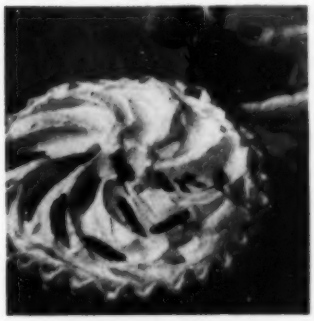


Here's a "quickie" dessert. Dunk a marshmallow in canned-peach liquid and place in cavity of peach half. Top with chopped, salted almonds and slip under the broiler till marshmallow melts.

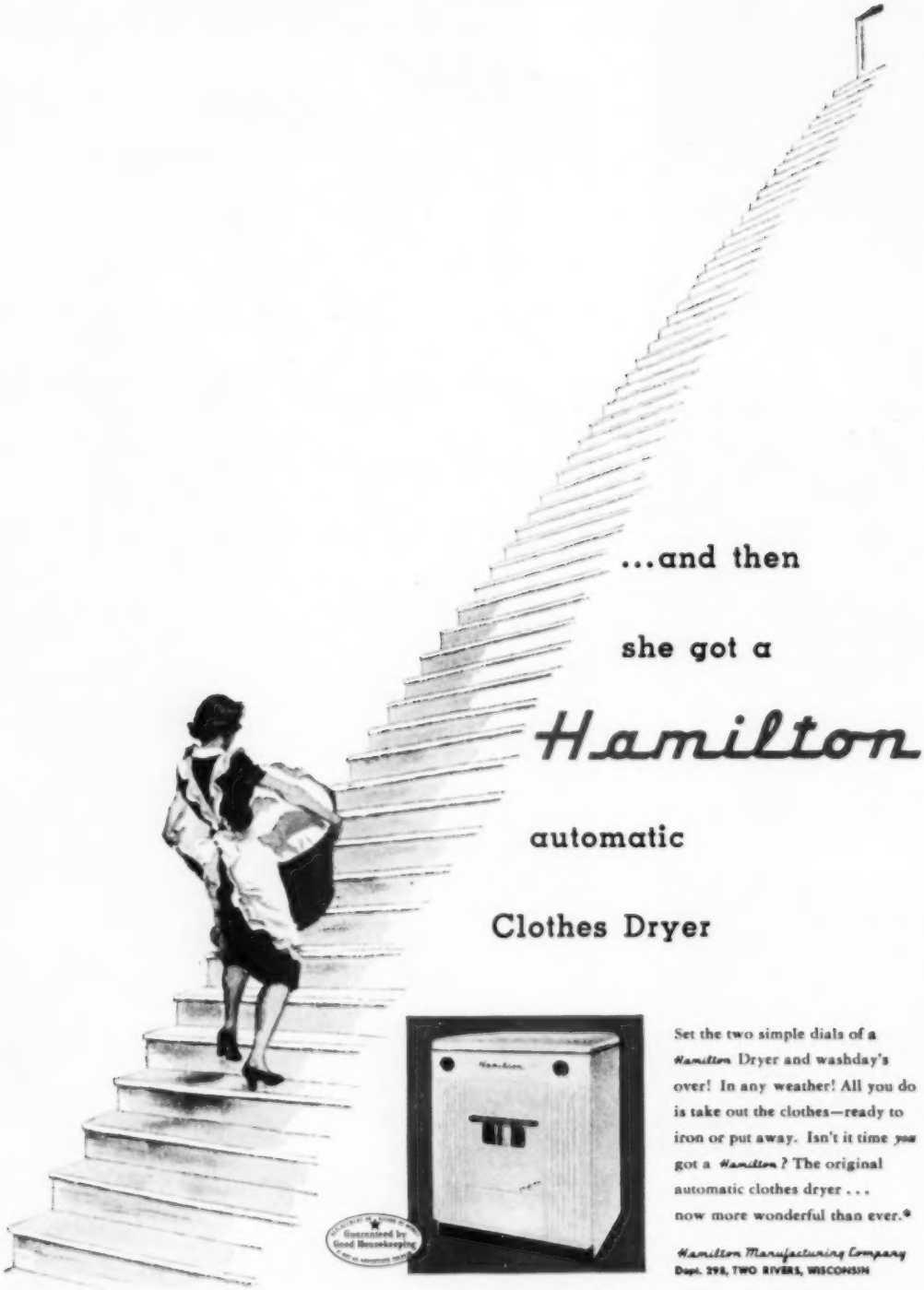
Add a fall touch to baked apples. Stuff the centers of red baking apples with mincemeat before baking. Serve warm, and pass sweetened top cream that has been dressed up with a dash of cinnamon.

Try this new topping idea. Instead of topping pineapple upside-down cake with whipped cream, try this topping that accents the flavor of the cake. Soften two 3-ounce packages of cream cheese with pineapple juice. Blend in ½ cup crushed pineapple. Serve a spoonful on each piece of cake.

Something new in the muffin line. Prepare corn-bread batter the usual way and fill greased muffin tins ⅔ full. Fry a few slices of bacon until crisp, crumble, and sprinkle on top of the batter in muffin tins. Bake at 425° (hot) for 25 to 30 minutes. The bacon and corn meal make a wonderful flavor combination.



Pink peppermint-chocolate pie. Fill a 9-inch baked pastry shell with cooled chocolate pie filling. Over the top, spread sweetened whipped cream which has been flavored with a few drops of peppermint extract and tinted a delicate pink with red vegetable coloring. Sprinkle shaved semisweet chocolate over the whipped cream. Delicious and attractive.



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result here is a dining room properly coordinated and planned with the color distributed according to our recipe. Here again we have good contrast with the dark walls, light furniture, dull red chair seats, and bright yellow of the draperies.

Watch carefully to distribute the colors in your room. For, just as you wouldn't put all of the heavy pieces of furniture in one end of your living room, so you would not concentrate all of your main color in one spot, all of your second in another, and all of your third in yet another. You must blend them together to complement and contrast with one another for an interesting effect.

To make this easy to do, *Successful Farming* has devised this simple chart for you to follow. Use it not only when you are redecorating, but as a check on the rooms you have completed. A simple rearrangement of furniture—or the addition of a small colorful accessory—might be all that's necessary to give you perfect color balance.

This chart has been compiled so that you may put the items in each section together and have a room setting. For instance, all those parts of rooms listed under No. 1 in each section will add up to the major furnishings in a room, as will the twos, the threes, or the fours. In each of the four rooms listed in the chart that follows, you will notice, however, that some part of the room is not mentioned—for instance in Nos. 1 and 2 it is the draperies, No. 3 the walls, and No. 4 the rug. These parts could either be one of the neutral colors, or could be a pattern which combines the three colors already used in each room. Try the chart and see how easy it is:

Chart for color distribution

Main Color—50 percent

1. Carpet and four walls
2. Four walls and two chairs
3. Carpet and draperies
4. Four walls and sofa

Second Color—30 percent

1. Sofa and one large chair
2. Carpet and one small chair
3. Sofa and two small chairs
4. Draperies and one large chair

Third Color—20 percent

1. Two small chairs
2. Sofa
3. One large chair
4. One small chair, pillows, lamps

It is just as necessary for you to follow each step of this new color recipe as it is to put each of the ingredients into your favorite cake. The more you use it, though, the more you will learn to vary it a bit and inject your own imagination. Just remember to select the color or colors that flatter you and make you happy. Select tones of these colors so that they fit harmoniously with one another. Then use them in the right proportion and balance in your room.

In the October *Successful Farming*, we will give you a recipe for the use of patterns and plains in your decorating. It will show you how you can attractively combine various patterns of wallpaper, fabric, and carpet in one room. **END**

Successful Farming film strip

Recipes for Color

For meetings, demonstrations, and clubwork, this *Successful Farming* film strip brings a new approach to the magic of color. It shows in exciting full color what the right colors will do for a room, how to choose and use colors and combine them in sparkling color schemes. Here is an explanation anyone can understand, built in easy step-by-step recipe form.

Recipes for Color includes, too, a clear demonstration of the room problems color can solve, takes you on a tour of attractively decorated actual farm homes with "before" and "after" pictures in color.

The film strip lasts about 25 minutes—is packaged complete with a detailed commentary that goes right along with each film. The commentary is designed for anyone, expert or novice, to use. The film strip and commentary will be available to you at minimum cost.

Special take-home booklets of the complete color story are available separately for a very small extra charge.

Write: *Successful Farming* Home Planning Service, 1716 Locust Street, Des Moines 3, Iowa.

The following stores will be featuring this film strip in September in conjunction with their *Home Harvest Time* programs. Here is a cordial invitation for you to attend and see *Successful Farming's* new *Recipes for Color*.

Iowa

Sioux City . . . . T. S. Martin Co.

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Springfield . . . People's Outfitting Co.

Nebraska

Grand Island . . Swan Furniture Co.
Hastings . . . . . Swan Furniture Co.
McCook . . . . . Swan Furniture Co.
Kearney . . . . . Swan Furniture Co.

Kansas

Salina . . . . . Swan Furniture Co.

Watch for a list of additional stores which will be showing this film strip in the October issue of *Successful Farming*.

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Costs less than ½¢ a week

No scrubbing! No scouring! Takes ½ the time!

Baking soda emulsifies greasy film that mold and germs cling to. Film disappears—and so do musty, sour food odors. There's no soapy or "strong" odor left to cling to food, no suds or grit to rinse away.

You just sprinkle soda on a damp cloth and wipe the inner surfaces of your refrigerator. Wash trays and racks in a soda solution. Baking soda is the cleanser recommended by 22 leading refrigerator manufacturers.

Better Coffee
Rinse glass coffee makers with a soda solution (3 tbs. soda to a quart of water) to get rid of filmy coffee oils that impair flavor.

Glasses Sparkle
Etched crystal or cut glass sparkles if you apply a thin baking-soda paste with a soft brush and rinse well, rub dry.

Arm & Hammer and Cow Brand Baking Soda are pure bicarbonate of soda—meet all requirements of U. S. Pharmacopoeia.

FREE! Booklet—"The Know-How Family"—shows many ways soda helps in your home. Write Church & Dwight Co., Inc., 70 Pine St., New York 5, N. Y.

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Tractors Need Phillips 66 Heavy Duty Premium Motor Oil!

Most farm work is tough on your tractor—like pulling a corn picker up and down the field. Rings, pistons and bearings take a beating unless you take the proper steps to prevent it. To help keep your tractor in the field and out of the repair shop use Phillips 66 Heavy Duty Premium Motor Oil. It's made to stand up under really tough operating conditions—made to protect all the vital working parts of your engine. Get Phillips 66 Heavy Duty Premium Motor Oil from your Phillips 66 Dealer or Tank Truck Driver.

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WEAR REDUCTION: **It reduces corrosive wear in your engine—guards piston rings and cylinder walls.**

FOR CARS, TOO! **Get Phillips 66 Heavy Duty Premium Motor Oil for that *extra* measure of protection you want for your car.**

GET NEW, IMPROVED *"Lubri-tection"*

How to mix and apply

At some time or other, most farmers whitewash the interior of certain buildings. It's customary to call a man who owns a spraying outfit and makes a business of such work. Occasionally an owner decides to do the job himself and discovers he doesn't know much about it. The following questions and answers are offered in the hope of being helpful to amateur whitewashers.

Q. Is it necessary to clean walls and ceilings before whitewashing?

A. Yes. Dust and cobwebs must be swept away and dried filth may have to be soaked loose with water. All surfaces should be clean for a good job.

Q. How about using disinfection with this cleanup?

A. It's a good idea, for whitewash won't kill many kinds of germs and spores.

Q. Can I whitewash while walls are wet?

A. Yes, but you'll have better results if you wait until they're dry.

Q. Can I buy whitewash mixtures?

A. Yes, some are available which require only the addition of water.

Q. Can I make my own whitewash mixture?

A. Yes, if you want to get quicklime and slake it with water.

Q. How do I slake quicklime with water?

A. By placing the quicklime in a metal container, pouring in enough water to cover it, and throwing a cloth of some kind over the open container. Add water at intervals until bubbling completely stops.

Q. Why use an open metal container?

A. Because both gas and heat are generated by the slaking.

Q. How can I use the slaked lime to make whitewash?

A. There are several formulas, but here are two which are practical under most farm conditions:

No. 1: Slake 38 pounds of quicklime. While the paste is still thick, strain it through ordinary window screen. About 6 gallons of water will be needed for slaking. Then mix the strained material with 7½ gallons of hot water in which 15 pounds of common salt has been dissolved. This mix can be thinned to the desired consistency with more water.

No. 2: Slake 38 pounds of quicklime; strain as in No. 1. Then add about 4 gallons of hot water. Stir vigorously while mixing in a solution made by first dissolving 12 pounds of salt and 6 ounces of alum in 4 gallons of hot water. Add a quart of ordinary molasses. The mixture can be thinned with water as desired.

Q. Why is the alum included?

whitewash

A. To keep the whitewash from rubbing off. An ounce of powdered glue per gallon of whitewash will serve the same purpose.

Q. Why use the molasses?

A. To make the lime more soluble and permit deeper penetration of wood.

Q. Some formulas call for soap. Is there any advantage to mixing it with whitewash?

A. Yes, a pound of bar soap dissolved in a gallon of hot water and added to each 5 gallons of whitewash will give it a glossy finish like paint.

Q. Can whitewash be made with lye?

A. Yes, a pound can of lye added to 5½ gallons of water and then mixed with 2½ pounds of water-slaked lime will make such a product. It's an excellent germ killer, but somewhat dangerous to handle.

Q. How about using some of the newer chemicals in the whitewash for the purpose of killing flies and other insects during the summer months?

A. Good results can be obtained if the manufacturer's recommendations are followed in regard to mixing. Chlordane, DDT, toxaphene, lindane, and methoxychlor are all fairly effective in whitewash, but at present lindane and methoxychlor are the only ones suggested for use in dairy barns and buildings where milk is handled.

Q. How is whitewash applied?

A. With either a brush or broom. A faster and better job can usually be done when a regular spraying outfit is used.

Q. How long will a coat of whitewash last?

A. That is largely dependent on the dampness and ventilation in a building. However, it is usually considered that whitewashing needs to be done at least once a year, and sometimes every 6 months.—*J. W. Bailey, Wisconsin.*

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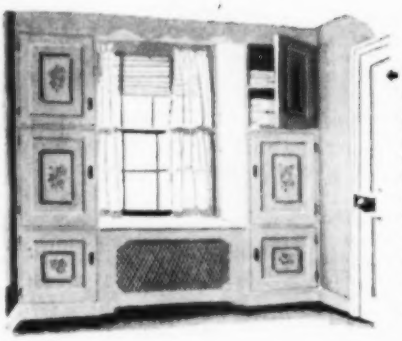
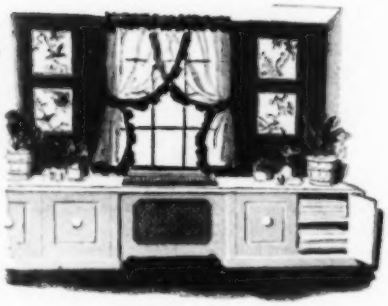
Ways to hide radiators

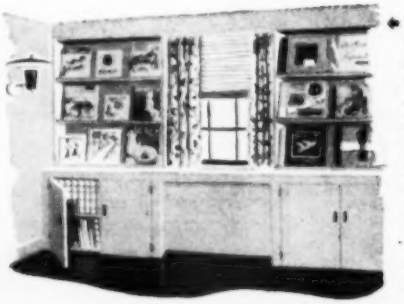
By William J. Hennessey



In an upstairs hall, or in a bedroom, here's a way to make a radiator enclosure grow to linen-storage proportions. Enclose the window on all three sides, just outside the casing. Add shelving and doors at each side for linen storage. Fit a removable frame, faced with wire mesh, over the front of the exposed radiator. Cornice over top of window opening will tie the whole unit together.

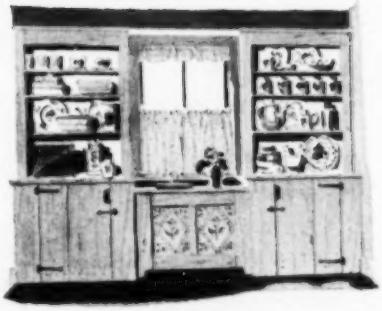
In a bedroom, extend a simple radiator cover to enclose cabinets for blanket, linen storage. Grillwork on top and front of radiator cover will provide ample heat circulation. Instead of front-door openings to the storage cabinets, you might prefer to use a hinged lid on each top. Storage space could be cedar-lined and used for off-season clothing.





For the den or living room, magazine storage racks are usually a welcome addition, and here's how to make them part of a camouflage for a radiator. Magazine shelves are sloped with a narrow guardrail across front of each. Deep cabinets underneath provide storage for albums or books. If your radiator is not under a window, use wall area between side racks for a picture grouping or a prize plate collection.

For a Colonial kitchen, try twin hutch cupboards in knotty pine on each side of an under-window radiator. Then, add pierced tin grillwork over the radiator for a real Colonial effect. You can make your own pierced-tin panels just like your grandmother's, by punching a pattern into light-gauge sheet metal with ice pick or nail. Use smooth side out.



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Join these happy millions! Once you use these "Kitchen Jewels" you'll wonder how you were ever satisfied with old-fashioned cooking utensils. Particularly since Revere Ware is practically indestructible — you can't burn a hole through it — and so it proves to be a most economical buy. But like all good things, Revere Copper-Clad Stainless Steel Ware is imitated. Make sure you get the real thing. Look on the bottom for the famous seal that set a new standard of quality. On sale at leading stores here and in Canada. Revere Copper and Brass Incorporated, Rome Manufacturing Company Division, Rome, New York.

SEE REVERE'S "MEET THE PRESS" ON NBC TELEVISION EVERY SUNDAY

Rarin' to Grow

Pigs raised on Terralac and weaned at 29 days, weighing an average of 16 pounds, are reported from the Peters Pig Hatchery, Wilton Junction, Iowa. The photo above shows M. L. Peters with a couple of Terralac pigs —one that weighed 9 pounds at 15 days and the big one weighing 34 pounds at 43 days.

Terralac

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Put Your Next Litters on Terralac . . . and Compare
For Quick Start . . . Faster Growth . . . Weaning Weight at Five Weeks

Three-in-one building

Machinery, feed, and livestock all housed in one building save time and building expense on the Karl Baker farm, Yarmouth, Iowa.

The pole building, built by Baker, can vary in length. It is planned in multiples of 16′ and is 52′ wide. Baker's barn is 52′x48′. The framing is of creosoted poles, braced with creosoted 2″ lumber. The building has a concrete floor, and the sides and roof are metal. The front is open.

Concrete extends out in front of the building, making a feeding floor. A movable panel extends along the open side of the barn. This serves as a manger for cattle and also as a partition for hogs at one end.

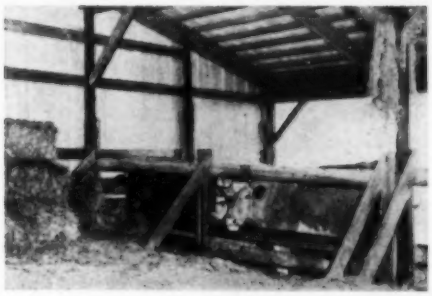
Stanchions are built in one corner of Baker's barn, next to a small grain bin where ground feed is kept for the milk cows. Baled straw and hay are stacked in one corner and in front of the manger. A section of the barn is used for machinery storage.

A 13′ driveway extends through the shed with doors at both ends. The interior of the barn is designed so that gates can be wired to the various poles to form pens.

Movable bunk panels are a feature of the barn. The panels are in 16′ sections, braced in the center, and built of heavy lumber. Each panel has three 4x4x5′ posts. These are braced by 2x6x6′ braces extending from the top of the post to the free end of the 2x5x5′ footing.

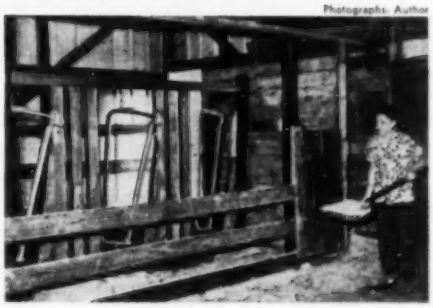
The front of the manger is of four 2x6x16′ planks. These panels can be set back from the front of the barn at any position to supply pen room or serve as a feeding area. The panels can be set up against a pile of chopped or loose hay, and as this is fed out, the panels can be pushed back to let the stock eat into the pile.—*A. M. Wettach.*

This machine, feed, and livestock shed is of pole construction. The building is 52′x48′ with a concrete floor. Sides and roof are covered with metal. Front of the pole building is open



Movable panels serve as a fence and also as a feeding manger. Panels are moved back as hay is eaten. The panels are also used to make pens for hogs, sheep, other animals

Photographs: Author



A feedbin and cow stanchions are built into one corner of the pole building. Feedbin is located close to the stanchions, making feeding easy. All braces are of 2″ lumber

"this triangle trademark means quality to me!"

That's James Little, R. 4, Janesville, Wisconsin, talking. He runs a 120-acre dairy farm with a milkherd of 40 Holsteins, and raises 60 market hogs a year. Mr. Little's ten-foot tandem Case Disc Harrow equipped with LaBelle Discs gets a workout.

Here's more from Jim: "I worked 300 acres last year, and there's no sign of disc wear—no nicks—they're as good as new. If I set my disc, she'll set right in to the arbor bolt. When I have to buy disc blades, they'll be LaBelle again."

Thanks, Jim. Users of LaBelle Discs have been telling us this for more than 70 years. That's because Crucible's integrated steel operation enables us to build quality and durability right in; our own craftsmen make the steel that goes into *every* "slow-tempered" LaBelle Disc.

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DAPPER DUSTPANS

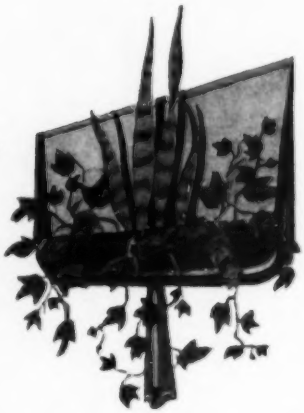
The useful life of your dustpan isn't really over when it's too old to work in partnership with your broom. If you will give it a coat of fresh paint and put it to work, you will find a dustpan can be as decorative as it is handy

By Bess Ritter

Fasten the pan on the wall, near your range, to hold small boxes and bottles of spices, extracts. A plaid design is easy to apply. Just mark squares with ruler and small paintbrush

Glue a fair-sized mirror to the dustpan, hang it inside the closet at eye level. Place comb, brush, lipstick inside pocket, and decorate the outside to suit your own fancy

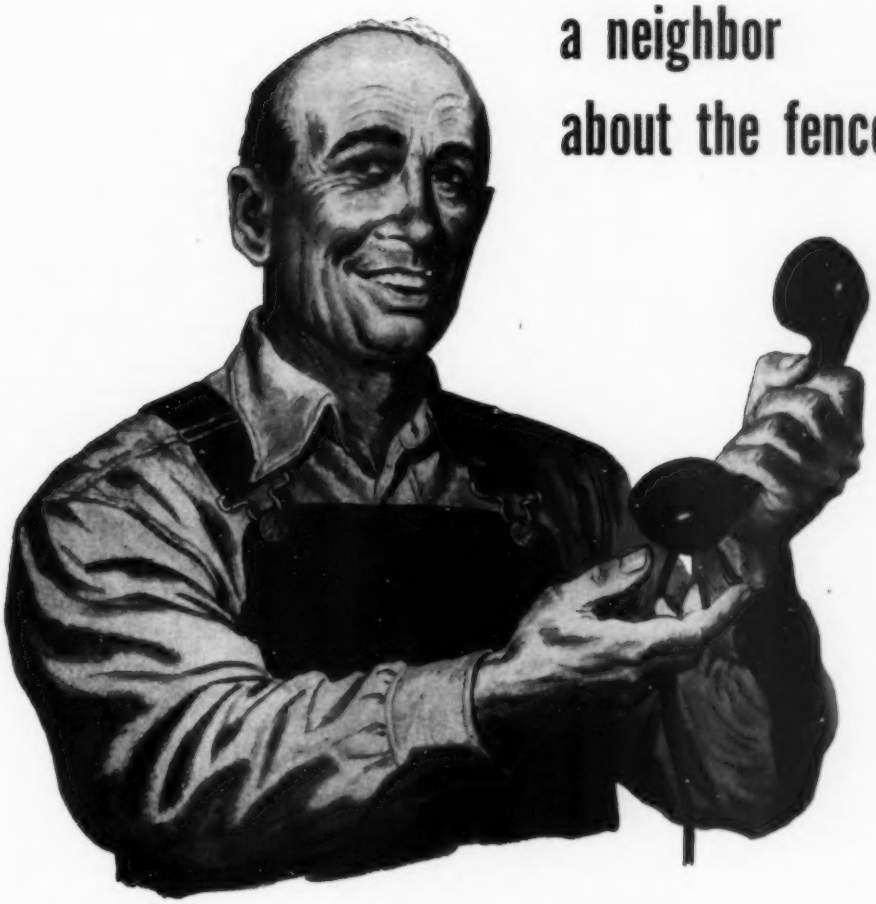
Fastened to the inside of a pantry door (though it's neat enough to be in full view), a dustpan will hold the paper sacks and wrapping paper that you will someday need



Let your dustpan retire to an ornamental life in its declining years. Hang near the window, fill with dirt, and add some healthy, green growing plants and good trailing vines

Attach a dustpan at eye level, in your mixing area where you can slip your opened cook book inside. You can refer to it without the cook book's getting smudged. Add color to match or contrast with kitchen. END

Got to see a neighbor about the fence



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We want your service not only to stay good, but to keep getting better. We are steadily introducing improvements in Bell System rural areas. They are the result of a lot of telephone experience — on the job, in our engineering offices, in Bell Telephone Laboratories, or in Western Electric, our manufacturing and supply unit.

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Everything under one roof

From page 19

The fan is operated up to 14 days per cutting, depending on the moisture content of the hay at the time of filling. The blower is stationary, and each silo can be filled from it. The silos are 21' in diameter and 28' high. Capacity of each is about 40 to 45 tons.

When the hay is fed, it's dropped down a chute onto a drag chain which carries it to a cart on a runway in the cattle shed.

Another silo, located in one corner of the cattle shelter, is 14' in diameter and 42' high. This silo is equipped with a silage unloader which delivers the silage into a cart on the runway in front of the feed bunks.

The entire system, the feedbins, cribs, silos, and cattle sheds, is under one roof. Roughly, all the feed is stored on one floor and the cattle pens and sheds are on a lower level. This seemed a natural way to build because of the hillside site. And feed is a lot easier to move down than up.

Grain from either the cribs or bins is crimped or ground in the driveway of the feed-storage section of the building. After the feed is ground, it falls through holes in the driveway floor into a feed cart. The cart is pushed along the raised runway above the bunks and the feed is dumped.

The cattle-feeding system isn't the only unusual part of the Lothrop beefmaking program. The feeding itself is also out of the ordinary. The Lothrops raise their own calves. The calves never curl their tongues around a blade of grass from the time they're born until sold as finished cattle.

Here's how the feeding program is carried out. The Lothrops select only cows of beef type—blocky, thick-fleshed, early-maturing cows which suckle well and breed regularly. For breeding, a purebred bull of the same type is used. The cows are bred in March so they'll calve in December. When the calves are dropped, they remain with the cows in the maternity pens the first week.

After the first week, the calves are separated from the cows during the day but are allowed to suck night and morning. At 1 week of age, the calves are given a ration of crimped oats and corn in equal parts along with bright green, leafy hay. Frank says some of the calves begin to nibble grain at 7 days.

The cow ration during the winter consists of 30 pounds corn silage, 18 pounds of brome-and-alfalfa chopped hay, 2 pounds of crimped corn, and 1 pound of protein supplement. The addition of grain and protein supplement helps keep the cows in better condition throughout the year.

If the cows can run in the cornfield, the proportion of silage and hay is cut to $\frac{1}{2}$ or $\frac{1}{3}$, depending upon the amount the animals will clean up at feeding time. Grain and supplement are fed even though the cows run in the stalks. A mineral mix is available to the cows and calves at all times.

As soon as pasture is available in the spring, the cows are turned in. If the pasture is good, the cows get by without supplement, but grain is fed throughout the year. The fresh grass increases the milk flow for the calves which are now old enough to handle all they can get. The cows are brought to the barn night and morning for the calves to suck.

When the calves are 3 months old, the ration is 5 parts crimped corn, 2 parts crimped oats, and 2 pounds of protein supplement. Another ration sometimes

Feeding is easy because the feeding ramp is above the feed bunks. Silage is raked out of the cart and falls into the bunk. Three-wheeled cart is used for feeding all types of grain, chopped hay, corn silage

Blower is located in the alleyway between grain storage and silos. All three silos are filled with the blower by switching the blower pipe. Self-unloading wagons are used for hauling in the chopped hay

used is 6 parts crimped corn, 3 parts crimped oats, and 1 part linseed meal by measure. Either of these rations may be continued until the calves are marketed or weaned.

During the last 2 months of feeding, the calves get all the crimped corn they will eat, along with 2 pounds of protein supplement. Hay is fed free-choice throughout the feeding period.

The quantity of feed is governed by what the calves will clean up. Clean feed is put in the bunks twice a day.

The calves are allowed to suck until they go to market or until they wean themselves. In either case the calves reach marketable weights about November 1. A few of the Lothrop calves have made 800 pounds at 9 months.

The cows run on pasture from May until October. The pastures are primarily bromegrass with small amounts of alfalfa, sweet clover, white clover, and bluegrass. The pastures are rotated weekly.

The entire pasture is fenced with 4' woven wire topped with barbed wire. Pasture lots within the pasture for rotating purposes are fenced by a single-wire electric fence. If the pastures fail, additional feed is given the cows when they come to the barn night and morning.

Sale barn spread shipping fever

Recently we bought a heifer, which appeared to be perfectly healthy, at a community auction. The animal was locally raised and transported less than 20 miles to the auction barn in the owner's truck. The heifer was a lively and healthy animal when bought. In 10 days she died.

The veterinarian diagnosed the cause as shipping fever. The first noticeable indication of trouble was the animal's "going off feed." This was followed by a thick and yellow nasal discharge.

Puzzled as to the source, we did a little inquiring. The original owner had no cases of the disease. The animal had traveled alone in the trucks which brought it to and from the auction barn. It boiled down to one thing. The animal had become infected in the auction barn.

Fortunately we kept the heifer isolated in a stall in the barn so as not to infect other stock. The stall was washed down with boiling water and lye, all water and feed troughs were sterilized, the hay from the manger and the bedding were removed and burned.

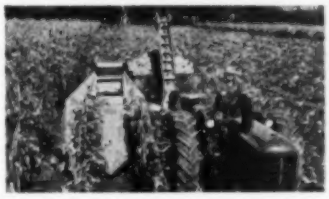
Newly purchased stock should be isolated in a stall where other livestock cannot enter. This means that spacing between the stall boards should be so close that cattle cannot thrust their heads through to nuzzle the strange stock.

Shipping fever usually is associated with long-distance travel in cattle cars. However, cases may come from local auction barns.—*J. K., Ohio.*

More Ears...Fewer Husks Faster Picking

Here's the New Idea Picker that best met the field, weather, and crop conditions in winning the 1951 National Corn Picking Contest, as well as all official State contests.

Easy-to-reach-and-make adjustments at snapper rolls and husking bed, along with other corn-wise mechanical features, make New Idea Corn Pickers masters of good and tough conditions.



Why not make a visit to your New Idea dealer your next step toward owning a champion New Idea one or two-row picker? He can give you a thorough, step-by-step explanation of why these New Idea one-man pickers are tops in efficiency. You'll be interested to see why New Idea Pickers harvest more ears . . . fewer husks . . . faster.

New Idea SUBSIDIARY AVCO MANUFACTURING CORPORATION
FARM EQUIPMENT CO.
Dept. 607, Coldwater, Ohio

Mail Coupon today for free folders!

Send free illustrated folders on follows:

- ☐ 1-Row Corn Snappers
- ☐ 1-Row Corn Pickers
- ☐ 2-Row Corn Pickers
- ☐ All-Purpose Elevators
- ☐ All-Steel Wagons
- ☐ Hand Corn Shellers
- ☐ Tractor Mowers
- ☐ 4-Bar Rakes and Tedders
- ☐ Hay Loaders
- ☐ Manure Spreaders
- ☐ Lime Spreaders
- ☐ Transplanters

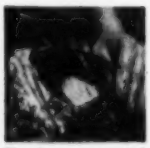
Name _____

Address _____

Here's how *for home painters*

How to paint your ceilings—Use small brush for edges and a lamb's wool paint roller. Roller eliminates dripping . . . applies paint 2 to 4 times as fast . . . and gives smoother job. Always start near main source of light and work away from it . . . easier to see places skipped.

Why paint masonry? Concrete, stucco and brick surfaces absorb moisture like a sponge. This weakens cement and mortar. Soon cracking starts because of temperature changes. Painting with Bay State Brick and Cement Coating prevents this damage . . . also reduces indoor dampness and heating costs.



What to do with brushes between jobs—If you'll be painting again in a few days, bristles will stay soft wrapped in kitchen aluminum. For longer—soak brush in "keeping" mixture of ⅔ raw linseed oil and ⅓ turpentine. For best application results, always use a "Superkleen" brush.

How to paint a window—Hold strip of metal on glass against molding. Paint the wood, letting your brush lap over onto shield. Best brush is an angular sash tool. Another way to keep paint off glass is to use masking tape. The paint to use is Devoe Trim and Shutter Colors.

YOU can get all the painting accessories you need—and many more helpful tips—at your neighborhood Devoe dealer. You'll find his name listed in the classified section of your phone book. Why not stop in and see him at the sign of the Devoe diamond.

DEVOE PAINT

Open feeding shed doubles capacity

This feeding shed and a 2,300-bushel granary doubled the livestock carrying capacity for Robert Skidmore, Polk County, Missouri. Feeding shed connects granary and remodeled horse barn used to store hay. By having both grain and hay close to feeding area, Skidmore saves an hour a day feeding 100 breeding ewes.

Corn is stored in a 1,100-bushel crib built in the hayloft and unloaded through a trap door at the bottom of the crib. An elevator is used to elevate corn to the overhead crib

Loads corn from above

Scoop shovels see little use in feeding hogs on the Foster McDonald farm, Jefferson County, Illinois. Gravity takes care of loading a manure spreader from an overhead crib—the corn is fed directly to the hogs on pasture from the manure spreader.

The overhead crib is 13½ feet wide, 10 feet deep, and 22 feet long. To take care of the added weight, McDonald has placed three 2x8s every 16 inches. Railroad ties also help support the corn load.

Removing corn from the bottom allows McDonald to store corn at a higher moisture content. When corn is removed from the trap door, most of the corn in the crib is stirred.

The corn is spread on a different spot in the field each day. The only other feed the hogs get is a protein supplement delivered in bulk and loaded directly into self-feeders.—*Vernon Schneider*.

"A BUSY PLACE LIKE OURS SOON LEARNS TO DEPEND ON CHAMPIONS!"

—says Clarence Hoff (right) who, with his brothers Frank (center) and George, operates the 900 acre Hoff Bros. farm and farm dairy near Saginaw, Michigan.

The Hoff Bros. farm is indeed a busy place. Farming nearly 900 acres, as well as operating a retail dairy, keeps these three brothers on the jump almost every minute. Their registered Guernsey and Holstein herd benefits from many advanced farming and dairy methods. For example, this was one of the first farms to adopt the stalk crushing method of haymaking. Not only does this result in higher nutritional value for the alfalfa and good color to the milk, but it cuts the drying time of the hay and allows it to be stored much sooner.

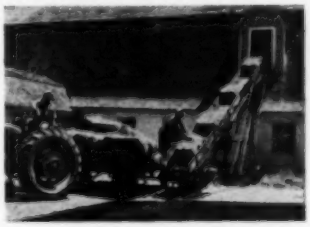
This was also one of the first farms in the area to install a conveyor type dairy barn cleaner. Specialized machines help maintain a high yield of peas, beans, corn, wheat, oats and barley as well as Michigan's famous sugar beets.

As Mr. Clarence Hoff says, "The more activities you have on a farm, the more you turn to mechanized equipment. Besides our fleet of home delivery units, tractors, general purpose trucks and cars, we use gasoline engines on harvesters and other farm machines. Take our blower, for instance. When we're filling one of the silos, that blower has to maintain a constant speed. A drop of 100 RPMs means a clogged pipe. Let me say that Champions are the only spark plugs we can depend on to keep that blower wound up. In fact, whether it's for hour after hour operation of our tractors, or 'stop and go' city driving of our milk trucks, we've learned to bank 100% on Champion Spark Plugs for real, dependable performance."

Scientifically cultivated fields and well kept farm buildings and residences make the Hoff farms an impressive sight from the air.

One of the young Hoff boys—already an experienced farmer—operates a tractor and haymaker.

This large expanse of sugar beet acreage provides one of the major crops on the Hoff farms.



A portable conveyor makes quick work of transporting hay bales from trailer to loft.

One of the units of the Champion-equipped fleet of Hoff's Farm Dairy home delivery trucks.

This modern building houses Hoff Bros.' immaculate and up-to-the minute milk processing and bottling equipment.

Dependable

CHAMPION

Spark Plugs

ARE WELL WORTH ASKING FOR— BY NAME!

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Five uses for your angel-cake pan

By Martha Quinn

Do you make the most of your angel-cake pan? The answer is, "No," if it's rescued from its secluded spot in the cupboard only when you bake an occasional angel, sponge, or chiffon cake.

You should discover what a really versatile utensil the tube pan can be. Each delicious dish on this page was prepared in a tube pan, which serves nicely as a spring-form pan, ring mold, cake pan, casserole, roll pan.

Use it, too, for steaming large puddings and for baking fruit- and pound-cake; try it for molding tomato aspic and cranberry jelly, scrapple, mush.

Amazing how really useful this neglected utensil can be! Store it in a more prominent spot, use it often.

1 Crusty cinnamon rolls will bake beautifully in an angel-cake pan. Use your favorite recipe and serve them in the ring. Let each person break off enough of the spicy, crusty rolls to match his appetite

2 Meat loaf is easy to serve when baked in ring formation. It looks pretty, too. It will unmold easily and is a nice shape for garnishing. Serve either piping hot or refrigerator cold, seasoned as your family likes it

3 For frozen desserts, your angel-cake pan doubles as a spring-form pan and turns them out velvety smooth. For a party treat, try a luscious strawberry torte with berries, nuts, and whipped cream

4 Upside-down cakes are a choice ending for company meals, and when baked in a tube pan they take on added glamour. Especially tasty when made with fruit in season and crowned with whipped cream

5 A molded salad without a ring mold? Yes, indeed — use a tube pan. It'll work for any kind of molded salad. To unmold, just dip pan in warm water momentarily, turn a platter over top of pan, invert pan

see how You score on this cake quiz

"THE RIGHT ANSWERS," says Betty Crocker, "WILL HELP YOU BE A BETTER HOMEMAKER!"

HOW DEEP SHOULD 8-INCH CAKE LAYER PANS BE?

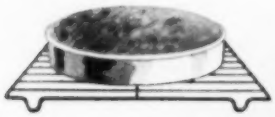
☐ 1 inch ☐ 1½ inches

Use layer pans 1½ inches deep, never less than 1¼ inches deep! Get full benefit from the large layers made with Betty Crocker Chocolate Devils Food Cake Mix and PartyCake Mix. Each has 1¼ pounds of fine ingredients!

CAN DATES AND OTHER STICKY FRUITS BE CUT UP EASILY?

☐ yes ☐ no

Yes! Cut with scissors! Dip scissors in hot water occasionally to prevent sticking. It's as easy as making cakes with Betty Crocker Cake Mixes! They're already measured and blended for you. Contain famous Softasilk Cake Flour!



HOW LONG SHOULD CAKE LAYERS COOL BEFORE REMOVING FROM PANS?

☐ 10 minutes ☐ 30 minutes

Let cake stand about 10 minutes! If allowed to stand in pan until cold, cake may stick. You're proud of layers made with Betty Crocker Cake Mixes—the only leading brand that lets you add eggs! Most other cake mixes have dried eggs!

UNLIKE MOST CAKE MIXES, THERE ARE

No dried egg whites
No dried egg yolks
No dried eggs of any kind in

Betty Crocker CAKE MIXES

You add the eggs—You know they're fresh!

GINGERCAKE AND COOKY MIX
Spicy as gingerbread. Light as cake! Add water, mix and bake!

CHOCOLATE DEVILS FOOD CAKE MIX
For rich, handsome, fine-textured devils food cake, with fresh egg goodness!

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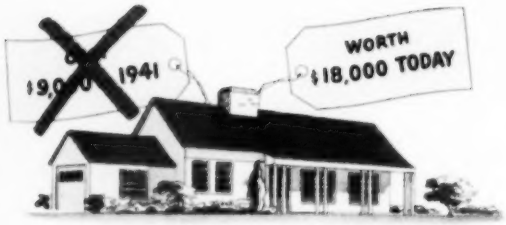

This sketch illustrates the greatly increased value of many residential properties in the last few years.

Doubled property values give you twice the reason to protect and beautify your house with the best house paint you can buy.

Don't be fooled about house paint claims. Many house paints cost less than famous SWP. But no house paint offers so much real quality at so little cost. That's because SWP is Weather*rated* . . . field-tested and laboratory-tested to withstand all that weather and wear have to offer. Tested toughness is built into SWP to keep your house looking better *longer*. And enough SWP for the average six-room house costs less than $45.00!

Now is the time to paint your house with SWP. Look for the familiar "Cover-the-Earth" sign . . . the sign of a friendly Sherwin-Williams dealer who will recommend a reliable painting contractor, if you wish. He can help you with *interior* decoration, too . . . ask for your free copy of the Home Decorator or ask to see the Paint and Color Style Guide.

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SWP House Paint is tested rigorously for its ability to resist chalking, checking, cracking, fading and dirt collection.

NOW is the time to paint your house with

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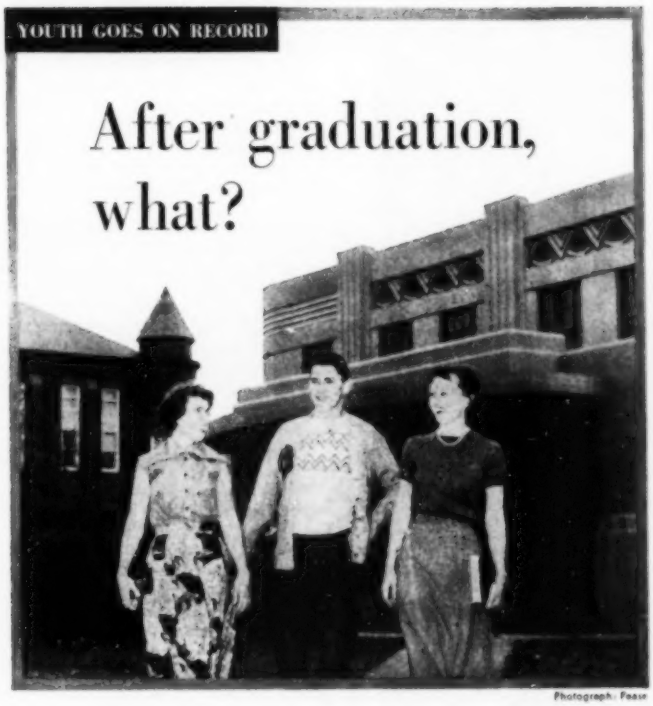
YOUTH GOES ON RECORD

After graduation, what?



Photograph: Pease

By Betty Carlson

What is the biggest problem facing farm youth today? When we asked that question of this month's panel members—students at Labette High School and Trade School, Altamont, Kansas—their unanimous answer was: choosing and preparing for their life's work.

For the boys who want to farm, the high cost of getting started is serious. As Lester Phillips put it, "It's impossible to go into farming on your own today unless you have help or take a staggering loan. Jobs in the city are easy to find, and the steady income in good wages is a big temptation."

Some farm boys don't like the farm. For them, the problem is "finding themselves" and getting a sound foundation for a profession, a trade, or business job. Harley Hayden is a case in point. "Just because you're brought up on a farm doesn't mean that's the best career to follow. A lot of farm boys go into other work. But it's hard to figure out just what you can do best."

The girls have equally big decisions to make.

Helping students find themselves and prepare for a career is stressed by the instructors at Labette (see page 50). In this respect, these boys and girls are luckier than most. What are some of their future plans? How do they feel about college? Do they think it important for a girl to train for work before marriage? For homemaking?

Taking part in the discussion were 10 vocational-agriculture students, 3 homemaking students, 1 in commerce, 3 in mechanics, 1 in radio-electronics, 1 in music, 1 in printing, and 1 in drafting.

How do those in vocational agriculture expect to get started in farming?

John Tunstall: For a couple of summers I've worked for a farmer, and I plan to go into partnership with him after I graduate from high school. There are 10 in our family and we *all* can't take over Dad's place.

Dale Miksch: I'm going on to college and let Dad take care of my project until I get out of school. Then I'd like to rent some land and save money. In four or five years, with a loan, I should be able to invest in land.

Kenneth Tedstrom: We rent our farm. Dad and I are going to work it on a one-third-profit basis—one third to the landlord, one third to Dad, and a third to me.

Lester: I'd like to farm part time and get a part-time job. The pay check will help on payments.

Robert Gomer: I'm going to work Dad's farm and rent some more land. By using his machinery, I think I'll show a profit.

W. A. Banzet: I went in with Dad on some Ayrshire cattle several years ago. When I get out of school, we'll go into partnership.

Kenneth: Going into partnership with

[*Turn to page 84*

KOHLER *Plumbing Fixtures worthy of your home*

THE KOHLER mark of time-tested worth is your guide to beautiful fixtures with glass-hard, easy-to-clean surfaces for practical bathrooms.

New in design, with modern, clean-cut lines and convenient features, are the Cosmopolitan Bench Bath and Gramercy lavatory.

The lustrous, enameled bath is made of non-flexing iron, cast for strength and rigidity. A low front, flat bottom and slope end afford comfort and safety. The lavatory, of vitreous china, has a roomy basin, unobstructed shelf, built-in soap dishes. Chromium-plated fittings match the fixtures in style and serviceability.

Consult your Kohler dealer when planning a bathroom, washroom, kitchen or laundry. Write for booklet E-15.

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AIR-COOLED ENGINES • PRECISION CONTROLS

After graduation, what?

From page 83

your dad or with another farmer is the best deal. Then you can build up your cattle and machinery and get some capital of your own. Now isn't a good time to go into debt. If you get a bank loan, it would take $8,000 to $10,000!

What are the biggest problems in getting started on a farm?

John: Equipment is a big problem because prices are sky-high.

Dale: I'd say land. Good land is hard to get now, and inflated. A lot of us have our start with cattle and you can always *rent* machinery.

Robert Gomer: I'd say land, too. Also, knowing how to take care of it. If you buy good land and don't take care of it, you are losing money.

How about the students who are planning careers other than farming?

Stanley Terril: I decided a long time ago that I didn't want to farm. I started out in music at Labette but found that wasn't what I wanted. So I changed to radio-electronics when I was a junior. Television is going to be a big field and I'd like to go into it eventually.

Harley: Ever since I was little I've liked machinery, so it was a logical step to go into mechanics. If I don't go on to college, I'll be able to get a good job. We do quite a bit of work repairing cars and tractor motors and body painting. It's good practice.

Robert Thygerson: I picked mechanics rather than vocational agriculture because I have hay fever. I'd like to farm, but it's impractical. Machinery is the next thing to it, because farming is becoming more and more mechanized, and you can always get a good job in a garage or plant.

Bill Maxwell: I frankly don't like the farm. Being a reporter for a newspaper is what I'd like to do, so I'm taking printing and journalism. To get a degree in printing, you must have a lot of English, too. We write all the news for the school paper, take our pictures, and print them.

Paul Johnson: I may farm someday, but first I want to get an engineering degree, so I'm taking drafting. I want to design farm buildings.

How about the girls? Should they prepare for some kind of professional work before marriage?

Lester: It's for sure girls make better wives if they have worked first. After earning their own money, they can make better sense out of budgets.

Beverly Marvel: If you work awhile before you are married, you can appreciate the independence that goes with farm life—if you're lucky enough to marry a farmer.

Leon Pearce: Working gives a girl a chance to get away from Mother and Dad, too. Teaches them to stand on their own feet.

Bill Maxwell: They learn how to meet people and talk with them in business. It helps them get over shyness, and they make better companions.

Darlene Williamson: A girl who has worked has a better idea of what her husband is up against. Also, if she should ever have to get a job after she gets married, she will have had some experience. I think a girl who doesn't work for awhile is missing a great deal.

Paul: I'd be willing to marry a farm girl who hadn't worked, though, because on the farm you learn the value of money and how to cook and keep house more than you do in town.

Donna Falkenstien: Actually, it varies with the girl. In some cases, going to college may help her more than working. Either college or some kind of work is bound to make you a better marriage partner. You learn to adapt yourself to people and different situations when you get away from home. I think you'd appreciate the security of a home more, too, and try harder to make your own home a happy place.

How about homemaking skills? Should girls be trained to be good homemakers, or can they pick this up easily after they are married?

Lester: Definitely, they should be trained. There are enough problems to untangle when you get married without having to learn how to cook and sew.

Darlene: Homemaking can't be picked up *easily* after marriage, but it *can* be done. It seems to me in school it's more important to take commerce or subjects that will prepare you to be able to support yourself.

Donna: I don't agree. Marriages that are based on the idea that the girl can *pick up* homemaking skills after she is married are more likely to fail. There's more to making a home than cooking and sewing, too. You should learn about family relations and child care, and how to run a home wisely.

How do these students feel about college? Is a boy or girl better equipped for living today if he has had at least some college education?

Robert Gomer: It depends on whether you are going into a specialized field or not. I feel that for general farming it isn't essential to go to college.

Lorne Schlatter: You can be a good farmer without college, but further training always makes you better equipped. It's the same with another career. You can get a good job without college, but you can't go as far.

Bill Maxwell: It stands to reason the more training you've had the better off you are. It's not as important if you're going into a trade or farming as it is if you want a profession.

John: For most vocations, it takes a college education today, because few high schools offer the sort of specialized training we have here. I suppose it isn't necessary in farming if you've been raised on a farm, but a college education would certainly help. **END**

Your cottons stay clean longer, look better...iron easier...

with my quick
LINIT RECIPE
—Jane Ashley

Home Service Department

Perfect "No-Cook" Starch with *Penetrating Action*

"No-cook" Linit is different! Its thin fluid mixture gets *down into* (not onto) the fabric. This exclusive "Penetrating Action" leaves cottons crisp, smooth, "like new". Linit-starched cottons stay clean far longer. Wash clean *quicker*, too—because grey dirt rides out on Linit. Linit also makes ironing faster and easier. Try Linit® Starch once—and you'll prefer it always.

MIX equal amount of Linit and cold water. Easy "no-cook" directions on box.

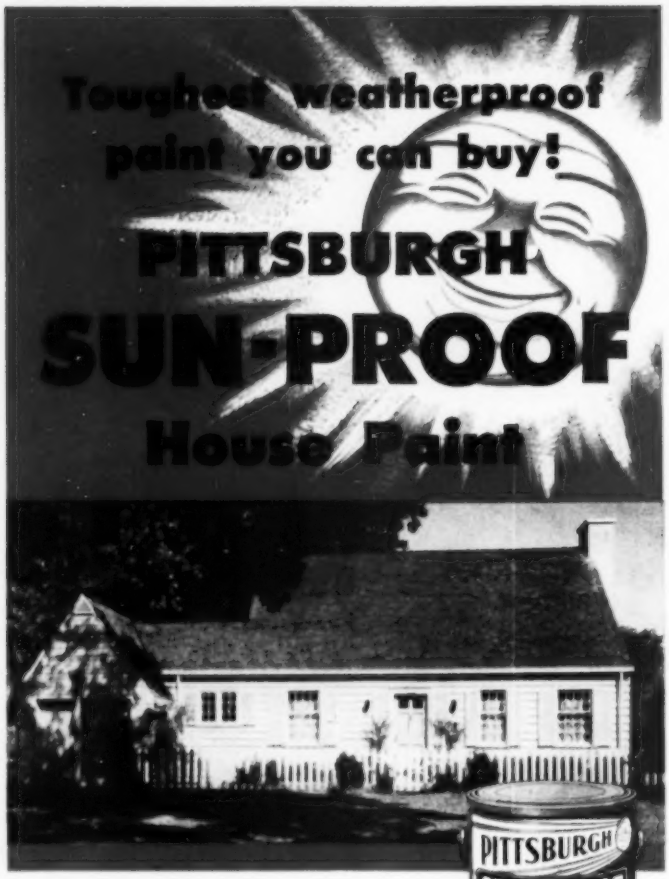
POUR boiling water gradually into mixture, stir. No straining . . . no lumps.

READY to use in cotton washables for a "Luxury Finish" you'll love.

Easy . . . You make LINIT in less than a MINUTE

Available in 12-oz. and 36-oz. packages

...FOR A LUXURY FINISH



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- **Next time you paint** the outside of your home—use Pittsburgh's Sun-Proof House Paint. You'll find it by far the best-looking and most economical protection in the long run.

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- Ask your Pittsburgh Paint dealer for a *free* copy of an interesting booklet which explains how you can use COLOR DYNAMICS in your home. Included are scores of suggestions in full color. These show how this modern painting system puts *color to work*, inside and out, to give benefits beyond the protection and beauty good paint provides.

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THE Farm

By Gus Larson

Which end of the egg is laid first? How much water does it take to grow a bushel of corn? How many hours a day does a cow chew her cud? If you're curious, let's start.

Score 5 points for each correct reply. If you score (a) 90 to 100—excellent. (b) 75 to 85 points—very good. (c) 50 to 70 points—good. (d) 30 to 45 points—below average. (e) 25 points or below—sorry.

1. What president of the United States kept a cow on the White House lawn? (a) James Madison (b) Andrew Jackson (c) Grover Cleveland.

2. Henry Gilpin said: "A hen lays an egg broad end first." Mrs. Gilpin said: "An egg is always laid small end first." Who is right? (a) Henry (b) Mrs.

3. The first combine was built in Michigan in the year 1836. How many acres would you guess this machine could harvest in a day? (a) 10 (b) 25 (c) 100.

4. Corn is a thirsty plant. How many gallons of water does it take to grow a bushel of corn? (a) 100 gallons (b) 1,000 gallons (c) 7,000 gallons.

5. Ten years ago the average-size farm in the country was 174 acres. Today, the average-size farm is (a) 150 acres (b) 215 acres (c) 280 acres.

6. To get best results from fertilizer, how many cornstalks should be planted to an acre? (a) 4,000 to 6,000 (b) 12,000 to 14,000 (c) 20,000 to 30,000.

7. John Nelson said: "A pain on the left side means heart disease." Neighbor Robert Grant replies: "Not so." Who is right? (a) John (b) Robert.

8. When cows start kicking, they may have cowpox. This disease (a) can also affect human beings (b) cannot affect human beings.

9. When a rat eats bait mixed with Warfarin, blood vessels in its internal organs begin to leak. The rat bleeds to death. (a) true (b) false.

10. Nothing can be done to control high blood pressure. Anyone who has it must restrict all activity. (a) false (b) true.

11. Do you know the ways of the fox? Then try this one. When chased, a fox will nearly always turn to (a) the left (b) the right.

Quizbox

12. Every 2 pounds of nitrogen added to corn (as national average) will increase production by (a) ½ bushel (b) 2 bushels (c) 1 bushel.

13. The horseshoemaking industry is not as dead as you think. How many horseshoes would you say are manufactured each month? (a) 1,000,000 (b) 100,000 (c) 1,000,000,000.

14. One of our presidents saw himself burned in effigy in front of the White House. Who was he? (a) John Adams (b) John Tyler (c) Abraham Lincoln.

15. Farmers grew an average of 26 bushels of corn per acre for 75 years before 1940. In last 4 years, average nationwide yield has been (a) 30 bushels (b) 40 bushels (c) 70 bushels.

16. There were 463 million acres of cropland in the United States in 1949. How many acres were actually planted to crops? (a) 368 million (b) 460 million (c) 200 million.

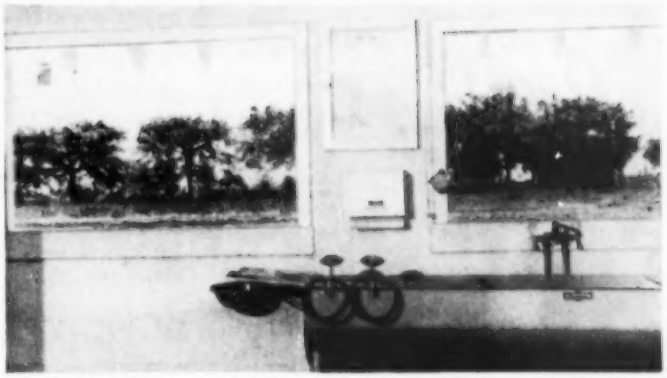
17. The first man born in the United States to become president was (a) George Washington (b) James Monroe (c) Martin Van Buren.

18. Fred Hilts said: "Plants can be fed through leaves." Brother John argues: "Nonsense; plant food must go through stalk or trunk." Who is right? (a) Fred (b) John.

19. When grazing, a cow takes about 60 bites a minute. How many hours a day does a cow chew her cud? (a) 3 hours (b) 5 hours (c) 7 hours.

20. President Truman is our thirty-third chief executive. But only 32 men have held that office. How come? (a) Cleveland was both the twenty-second and twenty-fourth president (b) Washington was counted twice.

Answers on page 88



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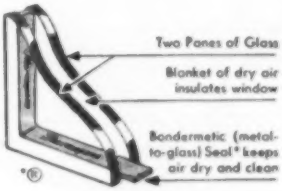
Summer sun is kept out of the solar milkhouse by the simple device of a roof overhang which shades the windows. This is possible because the sun rides higher in the sky in summer. And the *Thermopane* insulates the milkhouse from the warm outdoor air of summer.

Thermopane is the easiest way to insulate windows. You leave it in all year. It is now available in low-cost standard units made especially for use in farm service buildings. *Thermopane* is sold by glass and building supply distributors and dealers throughout the U. S.

Libbey-Owens-Ford Distributors and Dealers are listed under "Glass" in the yellow pages of phone books in principal cities. Mail the coupon for further information.



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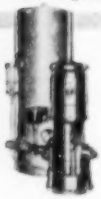

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Answers to farm quizbox

Questions start on page 86

1. (b) is correct. Andrew Jackson is said to have kept a cow on the White House grounds.

2. (a) is correct. Eggs are laid broad end first.

3. (b) is correct. First combine harvested 25 acres a day, cutting a 15-foot swath, writes Ralph D. Wennblom.

4. (c) is correct. Texas A and M reports it takes 7,000 gallons of water to grow a bushel of corn.

5. (b) is correct. U.S.D.A. reports 215 acres as average-size farm.

6. (b) is correct. E. R. McIntyre, U.S.D.A., is our authority.

7. (b) is correct. Washington Heart Association states pain on left side doesn't necessarily indicate heart disease, but recommends medical checkup.

8. (a) is correct. Doctors report that cowpox can affect human beings.

9. (a) is correct. Warfarin causes rats to bleed internally.

10. (a) is correct. Metropolitan Life Insurance Company states high blood pressure frequently clears up completely.

11. (a) is correct. Fox hunters report that a fox usually turns left when chased.

12. (c) is correct. Nitrogen fertilizer (costs 30-35 cents per pound) will increase yields as stated, according to the National Soil and Fertilizer Research Committee.

13. (a) is correct. According to the *New York Times*, 1,000,000 horseshoes are produced to shoe 7,000,000 horses and mules.

14. (b) is correct. President John Tyler saw himself burned in effigy.

15. (b) is correct. E. R. McIntyre, U.S.D.A., so reports.

16. (a) is correct. Hugh Wooten, U.S.D.A., so writes in the *Agricultural Situation*.

17. (c) is correct. Martin Van Buren was first United States-born president.

18. (a) is correct. Purdue University Experiment Station states that plants can be fed through leaves by spraying.

19. (c) is correct. The University of California Experiment Station cites the 7-hour cud-chewing figure.

20. (a) is correct. Cleveland was both our twenty-second and twenty-fourth president and is thus counted twice. END

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Favorites for eating

From page 52

Add half of this mixture to beans in pot.
Turn remaining beans into pot and add rest of molasses mixture.
Place remaining salt pork over top.
Pour on the bean liquor.
Bake covered in 250° oven (slow) for 6 to 8 hours.
Add more liquid (water) as necessary.
Serve with **Brown Bread** and **pickled crabapples.**

Brown Bread

Serves 6

Sift together:
- **½ cup sifted flour**
- **½ teaspoon salt**
- **½ teaspoon baking powder**
- **½ teaspoon soda**

Stir in . . . **½ cup corn meal**
- **½ cup graham** or **whole-wheat flour**

Add . . . . . **3 tablespoons light molasses**
- **3 tablespoons brown sugar**
- **1 cup buttermilk**
- **½ cup seeded raisins**

Beat thoroughly.
Fill 2 greased 1-pound baking-powder cans half full.
Cover tightly; steam 3 hours on rack in covered container, with small amount boiling water in container.
Remove cans and place in 450° oven 5 minutes before serving.
Slice and serve with **Boston Baked Beans** and **pickled crabapples.**

Spaghetti and Meat Balls

Serves 6

Brown . . . **1 onion,** chopped, in
- **3 tablespoons hot fat**

Add . . . . . **2½ cups tomatoes**
- **2 6-ounce cans tomato paste**
- **2 cups water**
- **1 teaspoon salt**
- **½ teaspoon pepper**
- **1 tablespoon sugar**
- **1 bay leaf**

Cook slowly 1 hour.
Combine **¾ pound ground beef**
- **¼ pound ground pork**
- **1 cup fine, dry bread crumbs**
- **½ cup grated Parmesan cheese**
- **1 sprig parsley,** chopped
- **1 clove garlic,** minced
- **½ cup milk**
- **2 beaten eggs**
- **salt** and **pepper**

Mix thoroughly.
Form in small balls; brown in hot fat.
Add tomato sauce.
Cook over low heat for 20 minutes.
Cook . . . . . **1 8-ounce package long spaghetti** in **boiling salted water** until tender
Drain and arrange on hot platter.
Serve with sauce and meat balls.
Sprinkle with **Parmesan cheese.** END

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double flavored

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For ECONOMY

Consider the economy of any roofing material with these three long-time cost factors in mind: (1) original price; (2) repair and upkeep; (3) years of serviceable life. Galvanized sheets are first choice of farmers because they know that the roof that gives them the longest, trouble-free service is the cheapest in the long run.

DON'T FORGET

Proper care pays! Material shortages are limiting new construction and replacement. Careful maintenance of present structures is more essential now than ever before. Expanding production of zinc and steel means ample supplies of galvanized sheets with the return of more normal conditions. In the meantime, a few simple steps with very little labor can extend the useful life of your galvanized roofing. The valuable booklets described below will tell you how.

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- ☐ List of Metallic Zinc Paint Mfrs.
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- ☐ Use Metallic Zinc Paint to Protect Metal Surfaces

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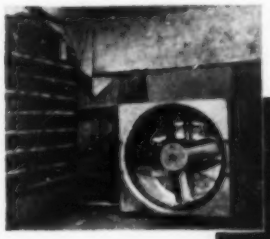
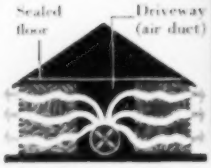
Send for FREE Booklets

What's your corn-drying problem?

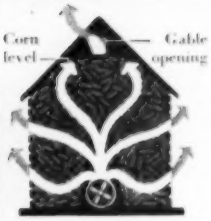
From page 33

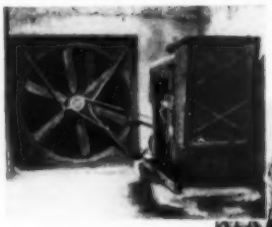


Driveway in crib acts as air duct for Burt Coates, Black Hawk County, Iowa. Canvas seals ends, ceiling. Drying costs were 1½ cents per bushel to lower moisture from 28 to 12 percent

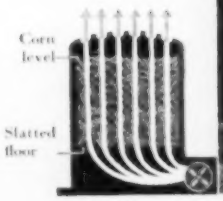


Double cornerib designed for natural, forced drying on Glenn Rogers farm, Crawford County, Iowa. The length is variable. Midwest Plan No. 73281—get set of plans from your state college





Silo-type crib dries 2,000 bushels at once for Clarence Kehl, Columbus, Wisconsin. Crib rests on a slatted platform covered with mesh wire. Conveyer unloads the corn from the crib bottom



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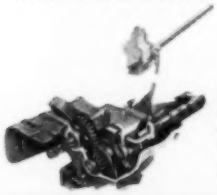

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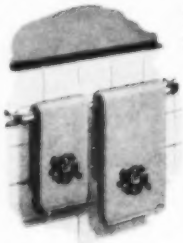

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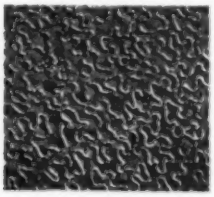

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First for fall

No matter if it's her first fall or her fourth at school, you'll want your daughter to look her best each day. A sturdy cotton will be a September favorite. The circle-skirt style shown here (sizes 6 to 12) can be made with either the Peter Pan collar or revers. The bib jumper and skirt and weskit are from one pattern (sizes 4 to 12). Long-sleeved blouse and skirt can be made to button together at the waistband and worn without the weskit. By changing the short- and long-sleeved blouses with jumper, skirt and weskit, and skirt alone, you have six outfits for your always-active daughter.

Back views of Advance Patterns on page 94

Jumper and short-sleeved blouse ensemble makes a hit with Mother, too. They are easy to care for in corduroy and cotton

Circle-skirt dress is perfect for prints as well as plain fabrics. The cap sleeves will take to a cardigan sweater for cool fall days

Skirt, weskit, and long-sleeved blouse are smart together or worn as separates. Match the skirt and weskit for suit effect

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Only

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OLEOMARGARINE

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Sweet Whole Milk

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vegetable oil

. . . and Salt, Sodium Salts Acetate Derivatives of Monoglycerides, Lecithin, Sodium Benzoate, added as a preservative; 15000 U.S.P. Units Vitamin A added per lb.

Sweet Whole Milk	16%
Pure Vegetable Oil	80%
Other Ingredients (Listed on carton)	4%

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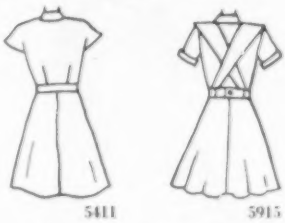
Wurlitzer is famous for the finest in electronic organs, too—among them a remarkable new electronic organ for the home. Easy to install. Easy to play

THE RUDOLPH WURLITZER COMPANY, DE KALB, ILLINOIS

First for fall

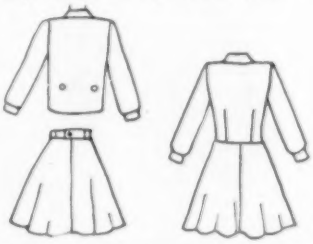
From page 93

Advance Patterns 5915 and **5411** are adaptable to many fabrics. Corduroy is a good bet for any of the styles, and there are new prints, stripes, plaids, and tweed-like designs available in corduroy this fall. A wrinkle-treated cotton is the practical suggestion for either the one-piece dress or blouse patterns.



5411. In size 6, dress requires 2 yards of 35-inch material without nap. Pattern is available in sizes 6 to 12, breast measurement 24 to 30. Cost, 25 cents.

5915. Short-sleeved blouse in size 8 needs $1\frac{1}{4}$ yards of 35-inch material without nap. The bib jumper in same size requires $2\frac{1}{2}$ yards of 35-inch material with nap. In sizes 4 to 12, cost is 35 cents.



5915. Long-sleeved blouse in size 10 needs $1\frac{3}{4}$ yards of 35-inch material without nap. Weskit, also in size 10, requires 1 yard of 35-inch material with nap. The skirt in size 10 needs $2\frac{5}{8}$ yards of 35-inch material with nap and an additional $\frac{1}{4}$ yard for plaid. In sizes 4 to 12, the pattern price is 35 cents.

These two Advance Patterns are available from local dealers or you may purchase them direct from Successful Farming *by simply filling in the handy coupon below.*

To: Successful Farming,
1609 Meredith Building,
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We have enclosed cash or money order in the amount of $ .....
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Who wouldn't stay in school?

From page 51

main reason behind this staggering dropout is the failure of present educators to give boys and girls the education they need and want.

"The average school makes no attempt to discover what each student is qualified to do," is his point. "Many schools stick rigidly to the same educational schedule that was set up years ago and, regardless of the wide span of individual differences, require all students to take the same subjects, taught from outmoded texts.

"Some students find the setup impossibly dull. Some are *unable* to learn such subjects as English and American history—as they are now taught. They become discouraged, bored, and quit school. When it comes down to it, what good will going to classes do a boy or girl if it doesn't contribute to his happiness and help him earn a good living? It's time we woke up!"

The philosophy of teaching which Harrison introduced in Labette High is attracting wide attention. The school has been cited by the University of Chicago as one of the outstanding schools in the nation. Its story has been told in educational journals across the United States and Canada.

But most exciting is the compliment the students, themselves, have given their school. Against the 50-percent dropout in some Midwestern high schools, less than 5 percent leave Labette before they finish their four years' training. Enrollment has increased for the past 10 years until the school now has a district embracing 600 square miles—and an enrollment of 500 in its classes.

The school is owned and operated by the farmers and landowners of Labette County. Ninety-five percent of the students come from farms, about one-fifth of them to take advantage of the complete vocational-agriculture department. The rest—as in most communities—either find it impractical to set themselves up in farming when they get out of school or have no desire to follow in their dads' footsteps. They are offered a wide range of training for specific trades, commerce and business, and homemaking. Open to all students is a strong program of academic subjects and arts.

Every possible effort is made to discover each student's individual abilities and interests, so he can be introduced to the field for which he is best qualified.

"There's at least one right niche for everyone," Harrison believes. "And until a student finds this, he'll be unhappy and lack confidence in himself.

"Not everyone should go to college," he contends. "Everyone doesn't have the ability to graduate from high school. But every student should learn how to make a living. Nobody flunks at Labette. If we can't graduate them honestly, they are given a certificate of attendance for four

years of work which will help them find jobs."

The school continues to expand. A new science, mathematics, and music building was completed recently. Another building, which will house the home-economics kitchens and sewing rooms and the cafeteria, is under construction now. The school is in the market to buy a larger farm, too, where the two agricultural instructors will live. At present, the school owns 50 acres and rents another 50 acres.

Yet with all this, the tax levy is one of the lowest for schools of this size—and smaller ones—in the state. One big reason Labette can offer such a complete program and *still keep taxes down* is that the school is organized on a county-wide basis. Total assessed valuation is close to $16,000,000, yet because of the wide tax base, the individual levy is only 5.4 mills on the high school and 1.7 mills for bus operation.

Farm boys and girls need as good a high-school preparation as city youth. They deserve teachers with training and understanding of rural problems. They deserve attractive grounds and buildings equipped with libraries, laboratories, and recreational facilities. They deserve a varied education with wide vocational choices, and opportunities in graphic arts, music, art, and recreation. Along with this they need counseling and guidance.

It's becoming more apparent that it is just as important to train farm boys and girls for occupations other than farming as it is for farming—as many must leave the farm.

Labette is one of the relatively few schools where such a complete program exists. The school is progressive, first, because its wide tax base has given the community financial leeway to pioneer in developing new education practices. Second, the school's administrators recognize and answer the needs of the students.

In the philosophy of a school like Labette County Community High School, there is food for thought for others. For, to prepare the citizens of tomorrow, our schools must keep step with today.

Music department, one of the largest in school, has 25 practice pianos, instruments for 90-piece band, orchestra. END

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Milk Replacement Containing ANTIBIOTICS

- **NOW FASTER GROWTH.** Calf raisers report that calves raised on Peebles' Calf-Kit without antibiotics were healthy, sturdy and well-developed. Now, with antibiotics added, they get more rapid growth—especially during the early growth period.
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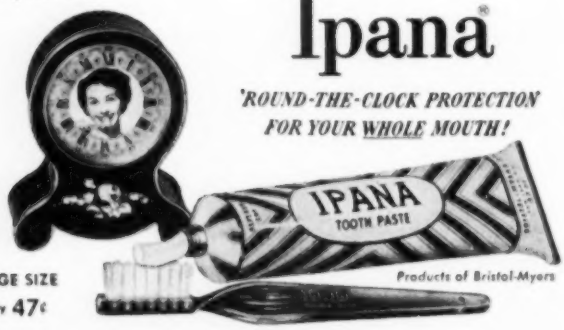

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LARGE SIZE
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What you ask about dryers

From page 46

7. Which dryer should I buy—gas or electric? Consider them both before you buy. A gas dryer uses any kind of household fuel gas as its source of heat, and must also be connected to a 110-volt outlet for operation of the fan and tumbler. Most electric dryers require a 220-volt circuit. The one you choose will depend on the gas and electric facilities you already have in your home, and on installation costs. Ask dealers the wattages or gas-consumption rates of various makes of dryers, then compare probable costs of operation on your local rates.

8. Do dryers always cause disagreeable lint and moisture in the room? No. Both manufacturers and users are solving this problem. If the dryer is located in a large, well-ventilated room, the moisture and small amount of lint may not be objectionable. Mrs. Moeckley and Mrs. Dillon (in our pictures on page 47) both have their dryers in large, airy recreation-workrooms. Both told us they have no complaint about lint and moisture. Mrs. Florin, who does her laundry in a small utility room without cross ventilation, finds a small suction fan installed in the wall above the dryer keeps the humidity normal. (This fan also removes cooking odors and moisture over the range on the opposite side of the wall.)

Some dryers are equipped so they can be vented to the outside air if conditions call for it. One type of dryer makes use of a fine spray of cold water to condense steamy air as it comes from the drying drum. Moisture and lint are then carried to a floor drain with the cold water.

Another dryer offers a new answer to the moisture problem. It has a set of condenser coils through which the lint-carrying moist air passes. Cool room air on the outside of the coils causes the warm, moist air to condense and moisture to run into a tray at the bottom of the dryer. A

SUCCESSFUL FARMING

"Well, if you'd hang your clothes on a hanger where they belong—"

flexible hose can then be connected to the tray to carry the moisture directly to a floor drain.

9. Is it hard to learn how to use a dryer? No. After just a few washdays, you can become well acquainted with a new dryer. You soon learn how to sort your clothes so those to be "damp-dried" ready to iron go in together. Those to be completely dried, ready to fold and put away, are dried in a separate load. With the help of your dryer "recipe book" you will get used to setting the dial for the time and temperature suited to the type and amount of clothes. (Sort of like setting your oven to roast meat the way you like it.) You can test the clothes for "doneness" any time during the drying cycle by opening the door and pulling out a sample garment to feel it in the open air.

10. Is a dryer a lot of work to take care of? No. Most of them require that you brush off a lint screen or empty a lint trap after each day of use—easier than emptying coffee grounds out of your percolator! Other care is simply wiping or polishing as for any other of your fine possessions. **END**

Why you say it!

Folk dancing, now very much in vogue, was the chief recreational device in medieval Europe. There were few commercial amusements, so whole communities turned out for dances.

A majority of the popular folk dances began with all participants holding hands in a circle. At a signal, it was broken and one person or couple would lead the rest of the ring through the traditional figures. A skillful ringleader had a place of honor, and was very much in demand at social functions of all sorts.

Since he was the mastermind of the dance, the title came to be applied to any person directing a group. Only in recent centuries has *ringleader* come to suggest the head of an enterprise less innocent than a dance.—*Boyd G. Wood.*

"I use the New Estate Electric Range because it GRILLS, BAKES, BARBECUES!"

says Duncan Hines

Be sure you have "Adventures in Good Eating", "Adventures in Good Cooking", "Lodging for a Night", "Vacation Guide", by Duncan Hines, nation's foremost authority on good food. For sale at better book stores.

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BAKE . . . pies, biscuits, a casserole all at once! They'll rise evenly, brown uniformly every time, in the Balanced Heat Oven.

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Take the Converto-Grid, for example, with its special built-in reservoir that drains off hot fats to give you true greaseless *grilling* for steaks, chops, sandwiches, fruit or vegetable rings. Here's a brand new cooking method *built right in!* But that's only half of the story. Remove the griddle and, presto, there's a super-giant unit for large (up to 21 qt.) vessel cooking.

Then there's the Bar-B-Kewer. Its radiant-heat unit imparts tempting "charcoal-done" flavor to your roasts . . . preserves the natural savory juices and reduces shrinkage. It lets you do roasts and oven baking at the same time . . . also doubles as a high broiler. Only the 1952 Estate lets you get everything ready at once, to serve it all piping hot at the call to dinner.

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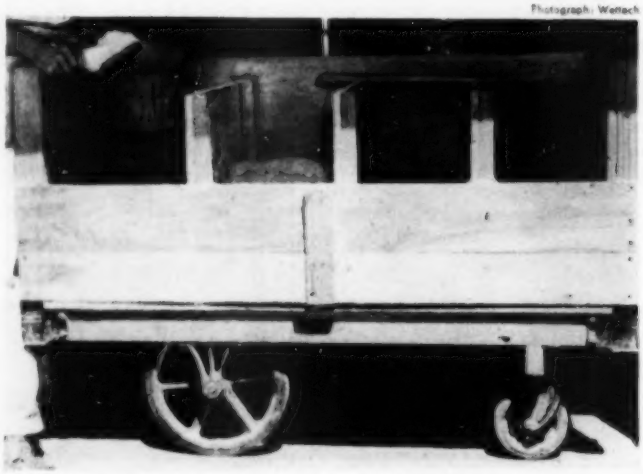
Photograph: Wettach



Partitioned feed cart will hold 1½ sacks of feed in each compartment. The 30"x5½' box is mounted on wheels. Cart was built by Sam Brooks, Burlington, Iowa

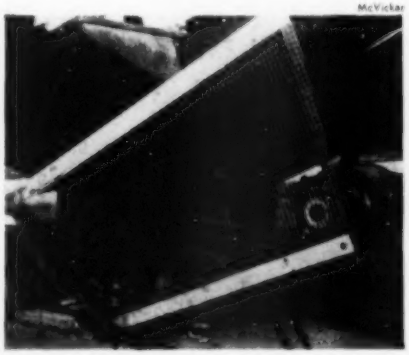
Sears

Tongue support for a grain drill was built by Walt Mortenson, Cherokee, Iowa. Holes were drilled through the two pipe supports to provide for adjusting the height of the grain-drill tongue to fit the tractor hitch

Hunt

Roof over the bunk stretches feed for Charles Winzer, Jackson County, Minnesota. The roof extends the full length of the 88' bunk. Support poles were set 45" apart and spaced 8' on center along bunk

McVickar



Safety guard was made from a piece of hardware cloth and strap iron by M. W. Hudson, Richmond, Virginia

Wettach

Corn shield is used by Arthur Fett, Donnellson, Iowa. The shield is raised and lowered by a hand lever. This shield raises leaning cornstalks which would otherwise be run over by tractor wheel

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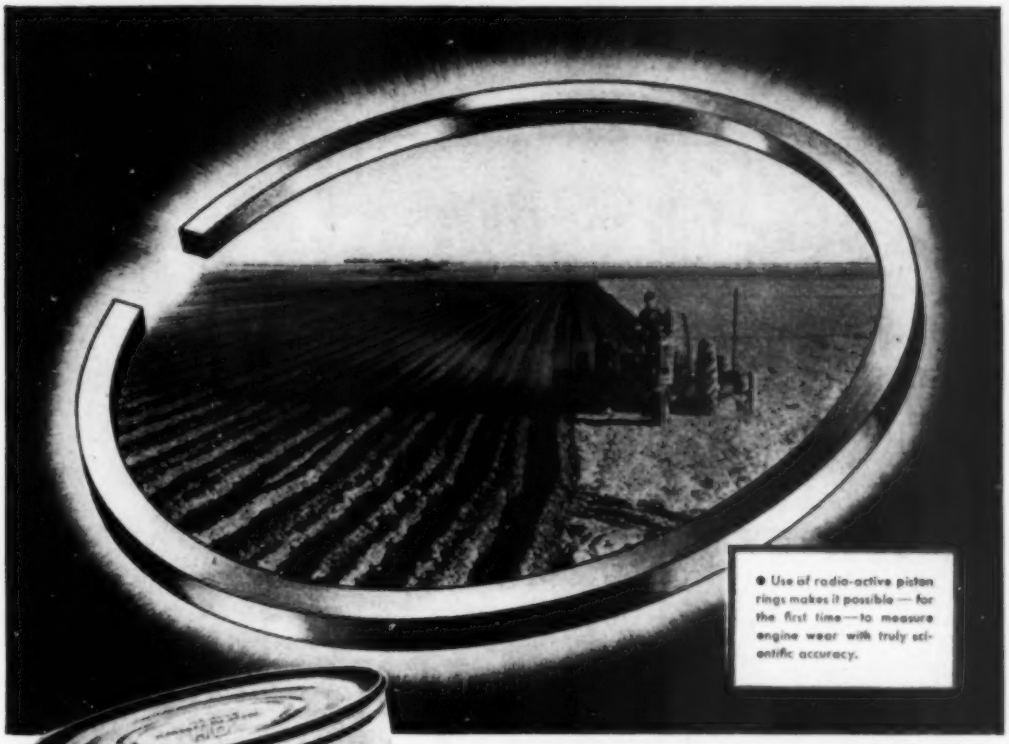
Proves Mobiloil's Powerful New Wear-Fighting Action!



New Super-Detergent Formula Means Dollars to You in Longer Engine Life—in Oil Saved!

Definitely proved . . . Radio-active tracers from the Oak Ridge atomic pile demonstrate how Mobiloil's new combination of ingredients can stretch farm engine life —can drastically reduce corrosive wear during the periods when most wear occurs . . . during starts and warm-ups and stop-go maneuvering. Less engine wear means less oil consumed, too!

Here's how we prove it . . . Radio-active piston rings are installed in test engines. "Hot" metal particles, scuffed off the rings into the test oil, are then measured by Geiger counter. The result proves Mobiloil with new super-detergent formula gives new *wear-fighting* action, top performance, for your tractor, truck and car!

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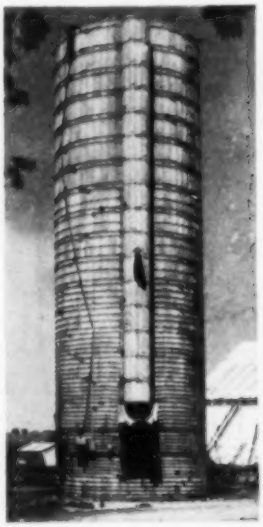
Enjoy better farm living . . .
. . . by letting *Successful Farming* continue to help you solve all your farm problems.

Husks cover shelled-corn silage for Burrough Conover, Ida Grove, Iowa



Reinforcing is put around silo by Walter Brandt, La Porte City, Iowa

Ear-corn silage going into glass-lined silos holding 5,000 bushels each

Photographs: Pease, Schneider

How to make ear-corn, shelled-corn silage

By C. H. Van Vlack and Earl Beery

Beat the frost and soft-corn problem with some ear-corn or shelled-corn silage. Last year, many livestock raisers turned to one or the other and had very satisfactory results. However, you don't have to have a soft corn crop to make some into silage. It is a good idea if you want to clear some land for wheat or get an early start before bad weather sets in. Here are some of the advantages of making at least part of your corn crop into silage.

1. Earlier harvest—from two to three weeks ahead of regular picking time.

[*Turn to page 104*

Corn is picked for ear-corn silage two to three weeks ahead of normal by Paul Willrett, Malta, Illinois. Stalks are standing better, fewer ears fumbled. Note the leaves

Bale up to 10 tons an hour—hour after hour—with a New Holland "77"!

"Not one miss in 4500 bales!

...with our New Holland "77"

says ELLSWORTH WAITE, WAITE FARM, ALEXANDER, N.Y.

"DAIRYING is our main business," says Mr. Waite, "and we have 70 head of pure-bred Holsteins. Last year we bought a New Holland baler to cut down on time and labor in operating our 400-acre farm.

"During the season we put up 14,000 bales—all our own hay. Our "77" tied 3,000 bales of hay and 1,500 bales of straw *without missing a bale*. That's what I call enjoyable work.

"Our dealer, the Goodridge Farm Supply of Alexander, N. Y., has done a wonderful job of service and upkeep for us. When haying was done, our total repairs amounted to $2.75.

"For the year, our stock produced 18,000 pounds of milk and 732 pounds of butterfat. This was a superior year and we know our "77" baler was a big factor."

Here's why you, too, can count on New Holland for fast, trouble-free baling:

Highest capacity—You can bale up to 10 tons of hay an hour with the "77"! Many twine-tie balers have only half that capacity—none beat New Holland. Fast baling is the one sure way to fill your barn with top-quality hay . . . it takes speed to beat rain and sun damage.

Gentle baling action—New Holland baling action keeps leaves and blossoms on the stem—doesn't shake them out into the field. A New Holland bale can contain up to 50% more feed value for your stock.

Low maintenance—The rugged, heavy-steel "77" is designed with fewer parts for smooth, trouble-free operation. It's ready to go and keep going all season. Repairs and upkeep are cut to a minimum.

More experience—New Holland was first in the field with the automatic twine-tie baler and is today the world's leading manufacturer of this type of baler. You benefit from this long experience in design and manufacture when you buy a New Holland.

Dependable service—New Holland dealers carry a full inventory of spare parts for immediate replacement. Their servicemen are trained in the latest techniques for servicing New Holland farm machinery.

Start planning on a "77" now. Ask your New Holland dealer for a demonstration. If you prefer a wire-tie, see the Model "80". . . it gives you up to twice the capacity of other wire-tie balers. The New Holland Machine Co., a subsidiary of The Sperry Corporation.

New Holland Twine is Certified by the United States Testing Co. to meet rigid standards of quality. It's fast-running, easy-tying and strong. Don't spoil your baling with inferior twine. Save yourself trouble and ask for New Holland Certified Twine.

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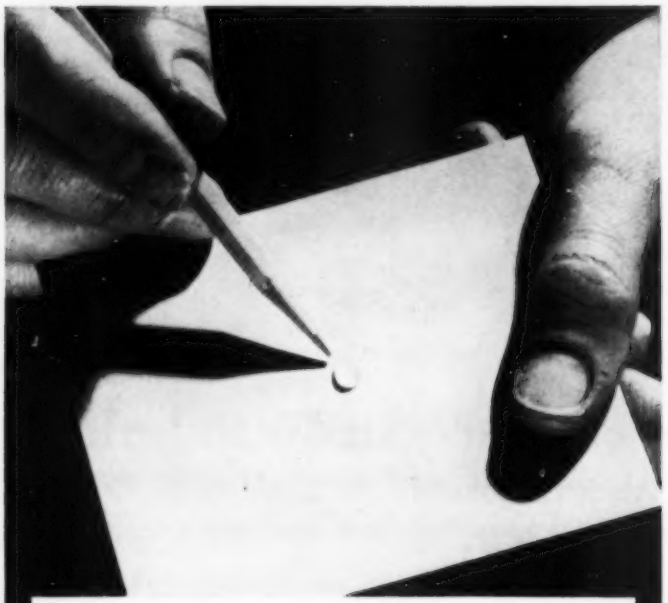
There is a difference in sealed-beam headlamps



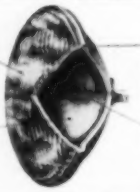
...and this is it

When moisture collects inside a headlamp and deteriorates the reflector, it cuts light output. Unless your headlamps are All-Glass, you may be able actually to see traces of moisture inside. But there's one way to be *sure* your headlamps are not growing dim. Replace them with G-E All-Glass headlamps. Because they're *All-Glass*, all one big bulb, there's no way for water to get in. Tests show that General Electric sealed-beam headlamps average 99% as much light after years of service as when new.

All-Glass sealed-beam headlamps do not grow dim

Rugged, hard glass precision lens to put light where you need it.

Mirror-like, built-in reflector. Stays bright.



One-piece All-Glass construction. Dirt and moisture can't get in.

Filaments held in vise-like grip. Can't shake loose.

You can put your confidence in—

GENERAL ELECTRIC

Silage

From page 102

Small elevator carries the ear corn from self-unloading wagon to mill for grinding. Corn goes through cutterhead and screen

Ear-corn silage is ready to feed as it comes from silo—no winter grinding. Softer corncobs are easier for the cattle to eat

Weather conditions are better and more feed is left in leaves and stalks. Ear-corn silage can be made as soon as the kernels are mature—just past the denting stage.

2. Less corn is left in the field. This is especially true when corn-borer damage is bad. Pickers won't fumble as many ears.

3. Corn is chopped and ready to feed when it goes into the silo. In the case of ear-corn silage, cobs are softer and easier for the cattle to eat.

4. No worry about soft corn. Moisture for ear- and shelled-corn silage can run about 50 percent. If an airtight silo is used, the moisture can go as low as 30 percent.

When making ear-corn silage, use the same principles as when making whole-plant silage. Add enough water to bring the moisture content up to about 50 percent. Run the ear corn through a regular ensilage cutter or a feed mill.

Ear-corn silage can be made as soon after the first frost as the cornpicker, without husking rolls, will snap the corn. Or the corn can be left in the field and silage made any time, provided water is added. Ear-corn silage also can be made from cribbed corn going out of condition.

Each year Paul Willrett, cattle feeder

in De Kalb County, Illinois, fills two glass-lined silos with ear-corn silage. Each silo holds from 4,500 to 5,000 bushels of ground ear corn. The corn is run through a cutterhead and a ¾-inch screen before going into the silo. In this condition, it's ready for feeding. Willrett likes to have the moisture run about 30 percent, although ear-corn silage keeps in the glass-lined silos all the way from 25 to 35 percent moisture.

Unless you are a large feeder, don't build a temporary silo more than 8 or 10 feet in diameter. Slat cribbing lined with two thicknesses of weatherproof paper provides satisfactory storage. Reinforce the cribbing with a double loop of No. 9 wire placed at 10-inch intervals. The height should be about the same as the diameter.

A trench silo also can be used to store ear-corn silage. Here the depth and width will be determined by the number of livestock to be fed. Grain silage will not stand straight as it is removed. Accordingly, allowance must be made for additional exposed surface.

Ear corn also can be shelled and the grain made into grain silage. This silage may be stored in a regular silo, temporary upright silo, trench, or pit silo. Shelled corn, unless of a high moisture content, will swell considerably when made into silage. This swelling causes high pressures which may burst a silo. This hazard should be recognized.

If you use a temporary silo for shelled corn, it should be built and reinforced in the same way as is required for ear-corn silage, except that it should be no more than 6 to 8 feet in diameter. The outward pressure of the heavier-weight silage is too great for the larger temporary silo.

The same is true of a regular silo. The size, of course, cannot be reduced. So consideration must be given to the excessive weight and to the unknown pressures created by the corn swelling in the larger-diameter silo as it takes up the moisture. Provide extra reinforcing.

In all silos the moisture content of the shelled corn should be brought up to about 50 percent. Cover the surface with a good, airtight seal. Weatherproof paper, properly weighted down, makes a convenient seal. When it is used over trench silos, the edges and laps should be covered with a few inches of earth or, better still, agricultural limestone. END

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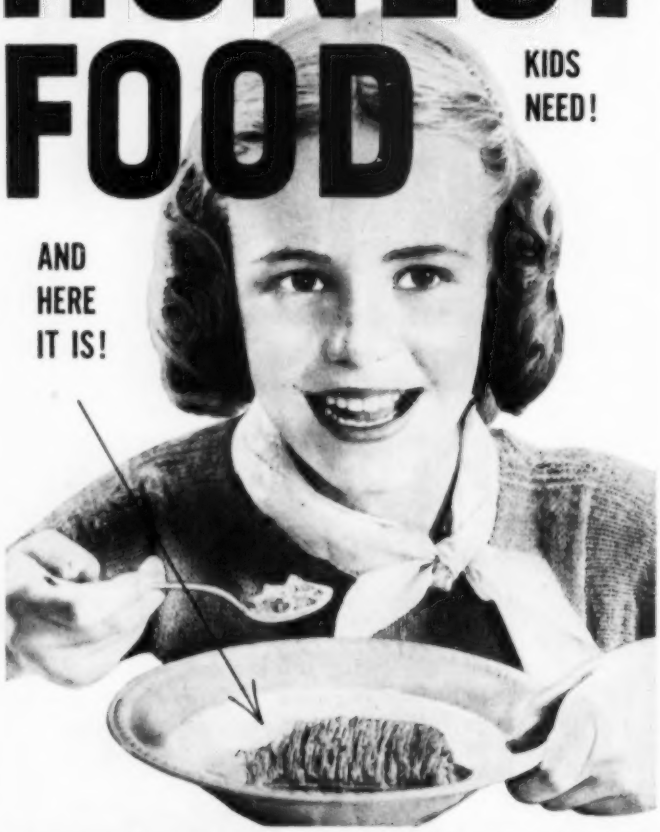

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Don't just say "Shredded Wheat"... say "NABISCO SHREDDED WHEAT"

How to

... *tomatoes*

You have probably discovered through your reading and from actual experience that frozen *whole* tomatoes aren't worth valuable freezer space. They're just not satisfactory. But don't let the fact that you can't freeze *whole* tomatoes discourage you, because stewed tomatoes and tomato juice can be frozen with great success. In fact, next winter, the garden-fresh flavor of frozen stewed tomatoes and tomato juice will be heartily welcomed by the family at mealtime.

Stewed tomatoes

How to prepare for freezing. Select vine-ripened tomatoes that are free from bruises and have a good color. Wash carefully, core, peel, and cut the tomatoes into pieces. Place them in a saucepan and cover tightly to keep steam from escaping. Cook slowly, about 12 minutes, stirring occasionally. Omit seasoning and bread or cracker crumbs until you are preparing the tomatoes for serving. Then you may want to add salt, pepper, sugar, butter, and minced onion.

Cool the tomatoes to room temperature by partially submerging the saucepan in which they were cooked in ice-cold water. Pack in moisture- vaporproof containers. Allow room for tomatoes to expand during freezing. Seal and freeze immediately at zero degrees.

How to prepare for serving. Place the frozen tomatoes in saucepan. Do not add water. Add bread or cracker crumbs and seasonings if desired. Cook on low heat until bubbling hot. (Cook just enough to heat them completely through.) Serve immediately.

Tomato juice

How to prepare for freezing. Select vine-ripened tomatoes of good color. Avoid fermented or molded fruit. Handle quickly after harvesting. Wash and core tomatoes. Simmer gently for 5 to 10 minutes until soft but not mushy. Press through a sieve and then strain again to remove seeds and skin. If desired, add 1 teaspoon salt to each quart of juice.

Cool the juice quickly by partially submerging saucepan in a pan of ice water. Pack into liquid-tight containers. A regular freezer jar with a screw-type lid is most satisfactory. Fill about 9/10 full to allow room for expansion during freezing. Turn container 2 or 3 times during freezing to avoid settling. Pack in small containers for faster freezing and quicker thawing. Seal and freeze immediately at zero degrees.

How to prepare for serving. Thaw slowly in the refrigerator. Stir vigorously when completely thawed.

freeze . . .

. . . *apples*

If you don't like to take up freezer space with whole apple pies, you can save room and preparation time if you freeze apples all cut up and ready for a pie. Then when baking time rolls around, all you do is thaw the apples slightly, add sugar and spices, and pop between 2 layers of pastry. Or, if applesauce is a favorite in your family, freeze a few packages of it and tuck them away in a corner of the freezer.

Apples (sliced for pies)

How to prepare for freezing. Select fully matured, firm, ripe, well-flavored apples which resist browning when cut. Wash, peel, core, remove bruises and discolored spots; slice about ½ inch thick. To keep apples from discoloring during preparation, peel apple slices into a solution of 2 tablespoons salt to 1 gallon water. Hold in this solution no longer than 15 minutes.

Blanch 1 pound of apples in 1 gallon boiling water for 1½ minutes. Count time when apples are added to boiling water. Cover kettle and time accurately.

Cool apple slices for 1½ minutes in a large quantity of cool, running or iced water (60 degrees or less). Agitate to speed cooling, and drain.

You'll find that blanched apples for pie are very satisfactory when packed without sweetening. Pack into moisture-vaporproof containers, leaving headspace. Seal and freeze immediately at zero degrees.

How to prepare for serving. To prepare for pies, thaw just enough to separate fruit. Add sugar according to a reliable apple-pie recipe.

Applesauce

How to prepare for freezing. Select full-flavored apples. Wash apples, peel (if desired), core, and slice. To each quart of apple slices, add ½ cup water. Cook apples until tender. Sweeten apples to taste with ¼ to ¾ cup sugar for each quart of sauce. Omit spices, as they change flavor during freezing.

Pack into moisture- vaporproof containers. Allow headspace as follows: For containers with wide openings, allow ½ inch headspace for pints and 1 inch headspace for quarts. For containers with narrow openings, allow ¾ inch headspace for pints and 1½ inches headspace for quarts. Seal and freeze immediately at zero degrees.

To prepare for serving. Serve partially thawed with crystals of ice still in it or thaw completely and serve. Or you can heat thawed applesauce and serve it warm. Add spices. **END**

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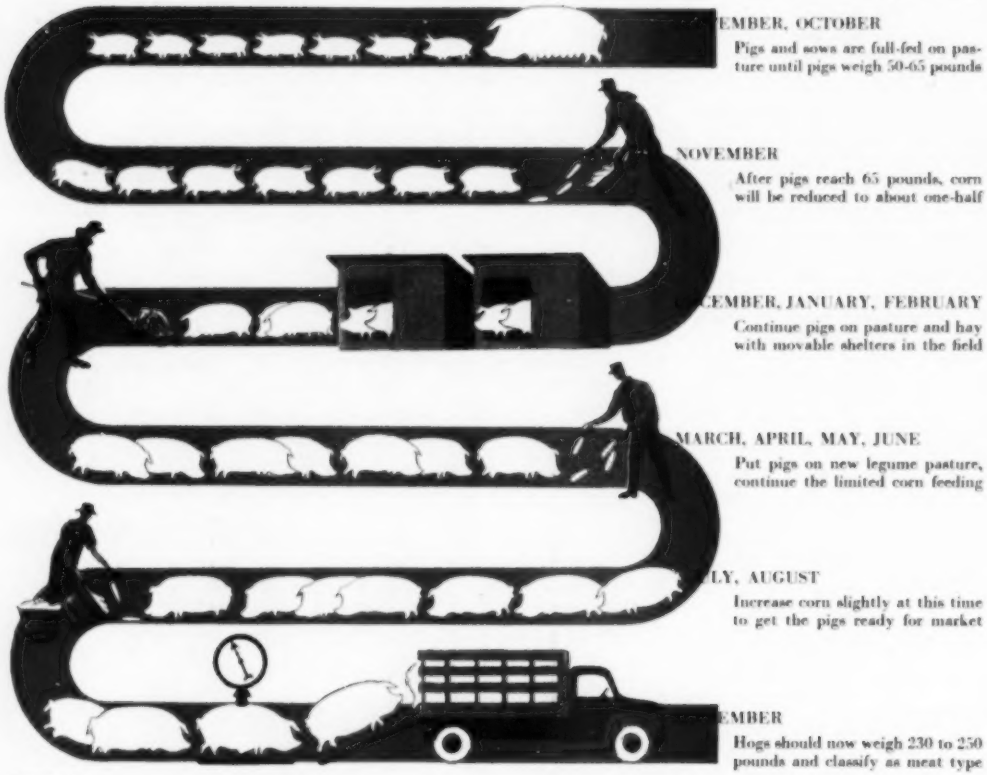
Is it feeding or breeding that gives us

The meat-type hog?

Here's how to produce the meat-type hog



Drawing: Hiser

By D. Howard Doane
Doane Agricultural Service, Inc.

What kind of hogs do we want and need? There seem to be as many answers as breeds. Plus some additional views expressed by teachers, buyers, packers, and livestock judges. This bewildering number of replies tends to confuse the producer, the man who turns feed into pork. He ends up by saying, "Well, the hog that has made me the most money in the past is this one," as he points to fat barrows, "and I am going to stay with him."

The net effect of many producers making this same decision is best seen at the stockyards. It's difficult to see much change in the kind of hogs that go to market now as compared to 10 or 15 years ago.

As we all know, the hog has been, and still is, the corn grower's major market. In the most intensive corn counties in Iowa and Illinois, for example, the major income to the farmer is from the sale of hogs. These farmers look at a hog as a market for corn. They feed him as long as he uses it at a profit, and then they ship. During recent years this means they produced a 225-to-240-pound thick, fat porker that, according to past standards, shows what we call good finish. He has perhaps 2 or more inches of back fat and is equally well filled out over his entire carcass.

Certainly this type of hog has played his part in making high-quality meat in the same way thick, fat steers and lambs make juicy, high-flavored steaks and chops. If the so-called excess fat on hogs sold [*Turn to page 110*

Why more and more poultry raisers are switching to Pillsbury feeding

"Less feed consumption— fewer small eggs..."

writes Walter Keinath, RR1, Vassar, Mich.

"We have been well pleased with our results since we started using Pillsbury's Best Feeds. Our accurate records show our feed consumption less on Pillsbury than any other program we have tried—and our pullets are coming into production with fewer small eggs!

"We sell our eggs under the guarantee that we will refund ten cents for each unsatisfactory egg. During the last three months we have refunded ten cents for one unsatisfactory egg, and we market more than 300 dozen eggs per week. These eggs have good yolk color and quality, the whites stand up firmly, and the shells are good.

"We make a 16% laying mash for our hens with Pillsbury's Best Grower-Layer Concentrate. As production increases we start using Pillsbury's Best No-Mix Poultry Concentrate, Bite-Size, as a noon feed.

"We feel the Pillsbury's Best Program is one that anyone can follow."

Which of these Pillsbury Programs fits your flock?

1. *Pillsbury's Best All-Mash Laying Mash.* For use when grains are short, too expensive or of questionable quality. A complete ration. A real labor saver. Bite-size or in meal form.

2. *Pillsbury's Best Laying Mash.* For use with home grains or Scratch Feed. Self-feed, all your birds want. Gives you a feeding program for heavy egg production through entire laying season. Maintains good body weight and vigorous condition for steady income.

3. *Pillsbury's Best No-Mix Poultry Concentrate.* Utilizes maximum amount of your own grains. No change of feeding program when birds go into laying house. Eliminates grinding and mixing. Feed free choice with your grains. A high producer that balances use to needs of birds.

4. *Pillsbury's Best Grower-Layer Concentrate.* When you have top quality grains this concentrate gives you a mix formula with lowest possible cash outlay.

All Pillsbury Laying Feeds are boosted with Mycins—Pillsbury's exclusive blend of antibiotics. Mycins seem to help layers use feed more efficiently; result: lower cost. See your Pillsbury Dealer for all your feed requirements.

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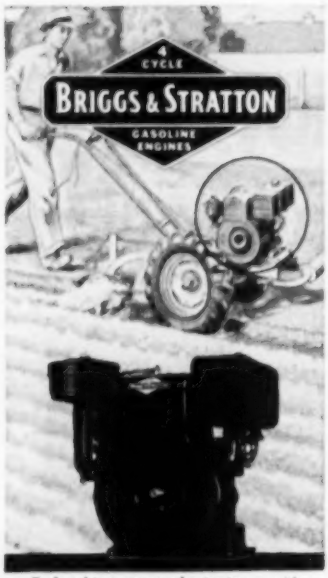

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The meat-type hog

From page 108

for the same price as the lean meat, we would hear little about "meat-type" hogs.

As I see the so-called meat hog on foot and then look at the way he cuts out, I keep asking myself these questions: "Is this meat hog the result of breeding or feeding?" "Can we, by heavy, long feeding, make fat hogs out of those bred for meat type?" Or, "Can we get meat type from our older established breeds by simply holding back the corn?"

As I have watched live-carcass demonstrations, I fail to associate meat type with breed as clearly as I do type with condition. I have had buyers point out black, white, red, spots, and belts, and say, "There is the meat type." To me they have simply said, "There is a hog the farmer has not finished, so we call him meat type."

If this observation is correct, then large areas of the country have for years produced our meat-type hog. As soon as we get out of the excess corn areas, farmers have used feeds that promote more growth and less fat. These farmers take more time and come up with meat-type hogs. If I had an order for 1,000 fat hogs, I would head for Iowa—corn country—but if it were for 1,000 meat type, I would head for the Ozarks—grass, clover, acorn country.

Now, if our present problem is one of less back fat on a hog, it seems perfectly clear to me that we can quickly attain our objective via the feed route. In this discussion I am dealing only with type, not rapidity or economy of gain.

The noncorn country will have few changes to make and will continue to offer what now seems to be in greatest demand. The corn areas—the big hog-producing sections—have first to answer the question of whether they wish to stop short of their usual finish. In other words, use less corn and ship what they have called their half-finished hogs.

At the moment this appears the less-profitable route. Farmers who have tried this idea say they need a premium to make it pay. It is my judgment that the corn farmer will require from 50 cents to $1 a hundred premium to send his hogs to market with only a thin layer of back fat. If he wishes to market his usual number of pounds of pork, he will either need more sows and more equipment, or more time. Both of these routes appear to increase costs, which indicates the need for a premium.

There may be another side to this story if we look a short distance into the future. The day of grassland farming is at hand. As of the present, the hog is not a big consumer of roughages. With a wide corn-hog ratio, there has been little reason for forcing him to be a grass eater. Lots of corn, full feeding from birth to butcher, have made the 2-litter system possible and twice-a-year turnover has been profitable.

If and when corn sells for $2 and hogs for $20, the incentive for holding back on corn and pushing up on grass will be strong. Or, if we find it pays, even when the corn-hog ratio is wide, to use more grass and take more time, we may still wish to cut down on corn. If and when we do this, it is my guess that this system will *automatically make our meat-type hog*. We will produce him in this manner because the grass plan makes the most profit—most profit without a premium.

If we should decide to go into the production of meat-type hogs via the grass route here in the Cornbelt, what is the best plan for going about it?

I am not sure that we have an answer to this question based on proved or experimental results. This means that an answer at this time must be part experience and part anticipation. It is from that viewpoint I am giving the plan a trial on my farm, and here are its features.

1. First, I try to find the type of hog that gives the most evidence of being a

[*Turn to page 112*

SUCCESSFUL FARMING

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A shining example...

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DO YOU remember when President Hoover entertained the King and Queen of Siam in the White House?

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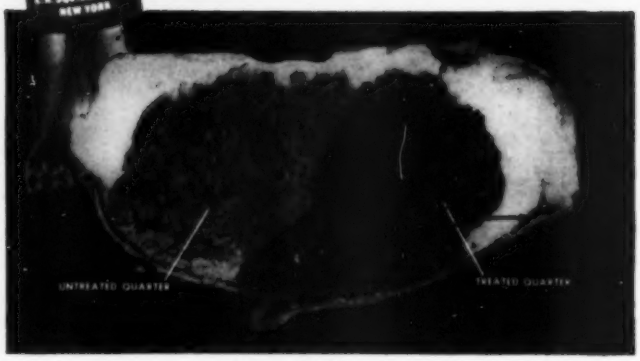

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1. The special ointment base of Pendistrin disperses thoroughly throughout the treated quarter . . . penetrates the millions of tiny alveoli which make up the glandular tissue.

2. Coating of ointment is retained up to 48 hours. Antibiotics are released slowly—ready to attack organisms at the moment in their life cycle when most susceptible to antibiotic action.

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SQUIBB—A NAME YOU CAN TRUST

The meat-type hog

From page 110

natural consumer of roughages. To get final results from this phase of the job will require a long breeding period. If we can, through breeding and selection, develop hogs that have superior grazing and hay-consuming characteristics, we will have taken our first big step.

2. I will farrow my sows in September or October. Pigs and sows will be full-fed on pasture until the pigs weigh 50-65 pounds. Sows may or may not run with pigs after weaning. If the 1-litter system is used, they should go right along with the pigs, or be full-fed for a spring market.

3. After the pigs reach 65 pounds, corn will be reduced to about half, giving more or less depending on how good and how abundant the pasture is at this time. No supplement will be fed if alfalfa and/or Ladino is abundant. This should bring us up to November.

4. Continue the pigs on pasture and hay with movable shelters out in the fields, keeping them gaining but using limited amounts of corn. When hay is fed, it should be high-grade alfalfa if at all possible.

5. By spring, new legume pasture should be ready, preferably on a field not winter-pastured. Continue on limited corn and pasture up to June or July. By this time, the hogs should weigh 150-175 pounds.

6. Corn can be increased slightly at this time to get hogs ready for a September market or remain at about the winter rate of half feed, if hogs will go to market in November-December. By this time they will be a year old, should weigh 225-250, and if only limited corn has been fed throughout the summer, should qualify as meat-type hogs.

This plan seems to have the following advantages:

1. Farrow in the fall when minimum equipment will be needed, and after hot weather is over and before cold days begin.

2. Have pigs weigh 50 to 60 pounds by the time cold weather starts.

3. Full utilization of fall pastures.

4. Full utilization of spring, summer, and fall pastures by hogs at an age they can and will consume maximum amounts of roughage.

5. Market hogs at a favorable high market in September-October ahead of the big fall and winter runs.

6. Corn can be pastured down with a saving in labor.

7. Corn consumption will be cut by 40 to 50 percent as compared to full feeding. A pound of pork should be produced for about 2½ pounds of corn, or a 230-pound hog for about 10 bushels of corn.

Some of the disadvantages are:

1. The plan appears to fit best a 1-litter system.

2. Hogs will be on hand 1 year, with just one sale period. If the 1-litter system is used, sows may be sold in the spring.

3. Pigs must be either hand-fed from the time they go on limited ration to the end, or corn must be ground and fed with good hay, oats, or perhaps bran. Then the mixture can be self-fed.

I have discussed this meat-type-hog situation with a rather wide range of interests. Breeders, producers, packers, educators, and some others have given their views. I found a thimbleful of agreement on these points:

1. Hogs especially bred to produce a desirable meat carcass may be and often are fed to the point that they carry as much excess fat as other types.

2. Fat-type hogs, regardless of breed, have been and are producing desirable carcasses by controlling degree of finish.

3. In the major corn areas of the United States, farmers will continue to feed their hogs to a weight and finish that will return a satisfactory price for corn as compared to other farm uses and the cash market. It is this objective that has been and is producing our heaviest and fattest hogs.

4. Around the edges of the Cornbelt, or in noncorn areas, farmers tend to produce hogs carrying a minimum of fat. That degree of finish represents their maximum profit. Thus, without urging or premium, these noncorn farmers are now producing meat-type hogs.

> **The moments most completely lost are those spent in feeling sorry for yourself or in thinking of what might have been.** —*Anonymous*

5. Problems encountered by the packers in training buyers to associate live-animal characteristics and meat cutout are not easily solved. Some are doing a good job, but others have tried and given up.

6. One very discouraging feature in buying meat-type hogs at a premium is the fact that in many instances dressing percent appears to go down as desirability of carcass goes up.

7. Granted that some hogs yield superior carcasses to others, evidence is yet to be obtained that the housewife *will select and pay a premium* for the more desirable, lean meat cuts. It will be difficult for the packer to pay a premium for a so-called superior type of hog and carcass unless that greater desirability can be reflected in the price he gets for it.

8. The time has come to question the continued validity of what we have called the most profitable methods of pork production involving 2 litters, full feeding, quicker turnover. Perhaps more time, less corn, more grass may yield greater profits.

9. If the amount of fat hogs carry to market is such a serious matter, why not attack the problem in its simplest form? Lower the top weight for top hogs or buy on a grade basis somewhat similar to the way cattle are bought. If we did either or both of these, the meat-type hog would become a reality. **END**

THRIFTIEST road to market!

During this harvest season and all through the year farmers find farm-to-market roads mighty important. And there is a special kind of farm-to-market road which is particularly important to farmers – the steel highways of America's railroads.

It is over these steel highways that most crops reach the nation's widespread markets – more than 1,500,000 carloads of grain alone this year, for example. And over these railroads are assembled and delivered the machinery, the fertilizer, and the other supplies farmers need, and the raw materials and fuel that go into their making. Over these steel highways more tons of freight are moved more miles than by all other means of transportation combined, and at a lower average charge than by any other general transportation service.

And the more these steel highways are used for the nation's freight, the less will be the wear and tear of heavy loads on the public highways, and the lower will be the cost to the taxpayers of building and maintaining them.

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WASHINGTON 6, D. C.

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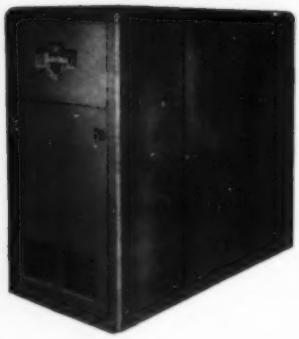
Live in comfort...

WITH WATERBURY
WARM AIR HEATING



When you choose a Waterbury furnace or winter air conditioner to heat your home you can rest assured that you will have indoor comfort now . . . and for many years to come.

Waterbury warm air heating means economical operation, dependable service and trouble-free heating. What's more, there is a Waterbury for every size home and every type of fuel . . . so live in comfort with a Waterbury furnace or winter air conditioner in your home.

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AIR CONDITIONERS

OVER 45 YEARS OF WARM AIR HEATING

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Please send me the heating guide, "It's So Important" and the complete folder of Waterbury units.

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STREET OR RFD _____

CITY _____ ZONE ____ STATE _____

"It's What's UNDER the Casing that Counts!"

The PLAY

Where Playfellows

Frisky, the Runaway Dog

Frisky was a fat brown-and-white doggie. He lived on a farm with Janie and her parents. Frisky loved the farm, and Janie, and his warm doghouse, and the food in his red dish. He should have been a very happy little dog.

Frisky was happy, but he had a bad habit which made Janie unhappy. Frisky loved to run away!

One afternoon Frisky came home tired and hungry. He had been gone since the night before and he ran up to the back door expecting Janie to come out to pet and feed him. But Janie didn't come.

Frisky ran all around the house. He barked his loudest bark, but nobody made a sound! Finally, he lay down on the porch and waited. He waited and waited, but no one came to feed him. It was getting darker each minute. Frisky huddled close to the door, trying to keep warm. And still no one came to find him.

Gay, careless Frisky, who had never worried about anything, began to worry. Maybe Janie wasn't coming back. Maybe she was so angry that she had gone away and left him. If only he had stayed at home!

Suddenly a car drove into the driveway and right up to the house. Could it be . . . yes, it was Janie! Frisky ran to meet her. Janie hugged Frisky and said, "My goodness. Did you think I wasn't coming back? I wouldn't leave you, Frisky."

Frisky wagged his stubby, brown tail. He tried his best to tell Janie how glad he was to see her. And if Janie could understand dog talk, she would have heard Frisky promise never to run away again. And he never did.

HOUSE

meet every month

Fun for little cooks

Here is a recipe for six easy-to-make candy cones. Fill them with store or homemade ice cream for a treat.

Measure **2½ cups puffed-rice cereal** into a shallow pan
Heat in moderate (350°) oven for about 10 minutes.
Pour hot puffed rice into buttered bowl.
Melt together in double boiler:
3 tablespoons butter
¼ cup peanut butter
¼ pound marshmallows (16)
Stir mixture occasionally. When melted, pour over warm puffed rice, stirring until rice is coated.
Pack puffed-rice mixture in bottom and against sides of 6 greased custard cups, leaving center part hollow like a cone.
Cool thoroughly.
Remove cones from custard cups and fill with **ice cream.**

Word Journey. You can visit 10 European countries this year just by completing this word game. Simply add one letter to each word given, and then rearrange all the letters to spell the name of a country. Example: Add the letter "i" to the word "snap" and all the letters can be arranged to spell the country *Spain.*

1. Tail
2. Crane
3. Engram
4. Remand
5. Dense
6. Rayon
7. Angled
8. Laws
9. Denial
10. Nodal

Answers: 1. Italy; 2. France; 3. Germany; 4. Denmark; 5. Sweden; 6. Norway; 7. England; 8. Wales; 9. Ireland; 10. Poland

On top or underground? Some vegetables grow in the ground, some on top of the ground. Can you make a correct list of the vegetables in each group? Try the ones listed below and add others for more fun. If you can't answer these, better plant a garden next summer!

1. Beans
2. Carrot
3. Potato
4. Turnip
5. Cabbage
6. Parsnip
7. Asparagus
8. Peas
9. Spinach
10. Onions
11. Tomatoes
12. Celery
13. Beet
14. Squash

Answers: On top: 1, 5, 7, 8, 9, 11, 12, 14.
Underground: 2, 3, 4, 6, 10, 13.

Favorite breakfast cereal of the 4 fine healthy Scholz children is Quaker Oats, the Giant of the Cereals!

"Hot Quaker Oats Helps Us Grow a 'Bumper Crop' of Healthy Farm Youngsters"

Says Mrs. Karl Scholz
Route 1, Huron, Kansas

University proves Quaker Oats better in growth-protein than any of 14 leading cereals!

"I always have good hot Quaker Oats on our breakfast table," says bright-eyed, alert Mrs. Scholz. "It's wonderful for the children, and gives us grownups the energy we need for a long forenoon of work."

Yes, it's not surprising that farm families eat more good nourishing Quaker Oats than any other folks.

Did you know Quaker Oats actually supplies more nourishing protein for growth and energy than any other of 14 leading cereals?

This was proved by a leading State University recently in an amazing test on 14 nationally known cereals.

The University reported Quaker Oats first in life-giving protein.*

Busy farm wives appreciate the time-saving 2½ minute cooking of delicious Quaker Oats.

And what other breakfast dish gives you the all-morning energy and stamina of Quaker Oats at the low cost of less than one penny a serving?

So to give your family the well-fed, energetic feeling they need for a full morning's hard work, serve delicious Quaker Oats for breakfast every day.

Bring up your babies on Quaker Oats because its richer protein benefits all ages. Buy Quaker Oats from your grocer now.

**Results published in FOOD RESEARCH, a nationally known scientific journal.*

Less than 1¢ a serving!

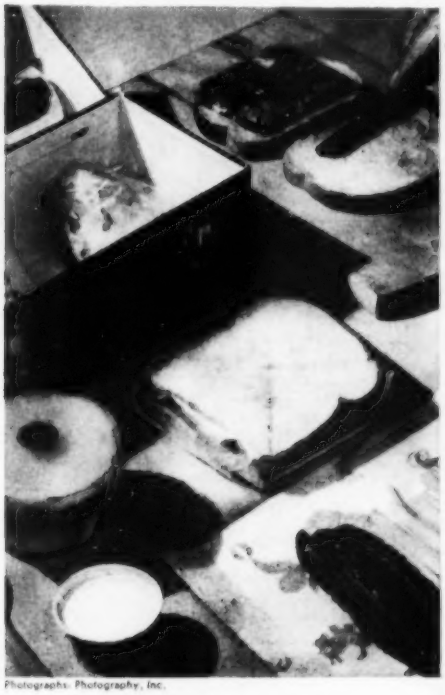
QUAKER OATS

THE GIANT OF THE CEREALS

Quaker and Mother's Oats are the same

Here's a lunch box young cowboys will enjoy. Salad goes in the glass jar, pie packs easily in a wedge-shaped plastic container, hot chocolate in thermos

Lettuce for sandwiches stays crisp wrapped in waxed paper, salad dressing goes in a small, covered paper cup, custard in custard cup with a plastic cover



Photographs: Photography, Inc.

When it's in the bag

The lunch must be good—hearty enough to be nourishing, and carefully packed

By Elizabeth Page

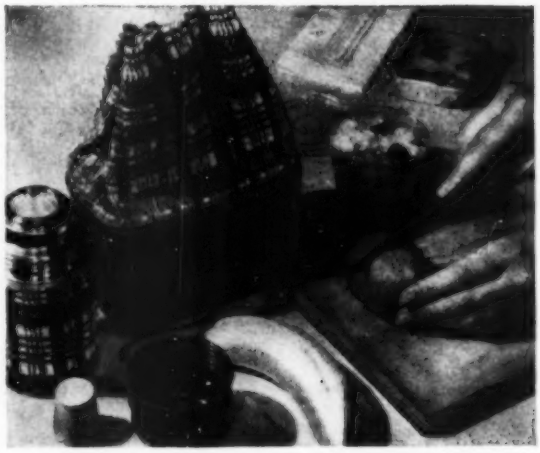
Lunchtime should be a big moment in a child's day—time to stretch, eat a good lunch, get out of doors—a welcome change after the Three R's.

But when a youngster carries his own lunch, it's up to you to make sure he opens his lunch bucket with real enthusiasm. A dry peanut-butter sandwich and an apple (while good in themselves) aren't much to look forward to after a long morning.

A carefully planned and packed lunch will invite your youngster to linger a bit instead of gulping down his food. More important, it will give your youngster the energy he needs to finish off the day in good style.

You can keep your lunch-box toters happy and healthy if you pack in each lunch something hearty (meat, cheese, eggs, whole-wheat or enriched bread), something raw (fruits or vegetables), something sweet, something good to drink, and something for a surprise. On a cold day, it's a good idea to include something hot.

Menus and hints on page 118



Fancy enough for any girl. Potato salad keeps well in a covered plastic dish. Wrap the banana carefully—its flavor gets chummy with other foods

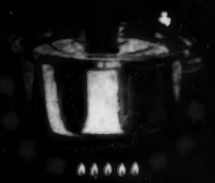
You'll Just Love

Wear-Ever aluminum and the easy way Wear-Ever Cleanser Pads keep it shining.

The Wear-Ever way to easier, better cooking on your range top . . .

In Wear-Ever aluminum the heat (any fuel) s-p-r-e-a-d-s quickly and evenly, avoids hot spots. You can cook a pint of milk to ¼ pint without scorching! That's one reason famous chefs use Wear-Ever. Most cooking can be done over thrifty low heat. Many women still use Wear-Ever pans their mothers handed down with pride.

Deluxe covered saucepans, 4 sizes. 1 qt. size $1.25. (Cover 40¢)*



NEW! Wear-Ever Blancher

Handiest utensil ever, for canning, home freezing and dozens of other uses. Ideal for corn-on-the-cob, spinach, spaghetti, sterilizing baby bottles.

8 qt. capacity, cool Bakelite handles. $6.95*

Beauty Award Tea Kettle

Heats water speedily. Heirloom quality. Comes in all popular sizes. You'll be proud of it.

2 qt. size $3.75*

Quick change artist

It's a handy 3-way cooker; a double boiler; a covered sauce pan; a baking dish or casserole. Convenient cup-markings. 2 and 3 qt. sizes.

2 qt. size $2.75*

"College-Educated" Coffee-Makers

Each Wear-Ever percolator or drip pot has built into it the findings of research at a great university. You'll be thrilled at the greater deliciousness of coffee. Perks come in 2 to 16-cup sizes; Drippers, 2 to 12 cups.

6 cup perk $3.50* **4 cup drip $3.75***

Chef's Favorite Fry Pan

Extra thick, French chef style and regular shape. Ideal for hamburgers, chops, hashed brown potatoes, crêpes suzette. All popular sizes.

7½" size, $1.95*

How do you like your pancakes?

Wear-Ever's "Educated Griddle" makes them *perfect*, because the indicator tells when baking temperature is exactly right. Label gives easy recipes.

Diam. 11"—$4.45*

(Note convenient heat indicator dial).

(Rounded bottom so that foods slide easily to plate).

Friendly to Food
WEAR•EVER
Aluminum

. . . and many, many more

Wear-Ever pans for better, easier cooking, baking, roasting and broiling —Wear-Ever Foil, too—are in your neighborhood store.

See Wear-Ever on the ALCOA Program, "SEE IT NOW" over the CBS-TV Network every Sunday

WEAR-EVER ALUMINUM TRADE MARK

*Western prices slightly higher.

THE ALUMINUM COOKING UTENSIL CO., DEPT. 5709, NEW KENSINGTON, PA.

What makes the difference?

A FRIGIDAIRE Electric Water Heater

Gives you all the hot water you want—all the time

(for just a few pennies a day)

What luxury! Lots of hot water—for dishes, baths, laundry—with no work, no worry. Set the thermostat *once*. Automatically, from then on, you'll *always* enjoy hot water.

What thrift! Exclusive sickle-shaped Radiantube Heating Unit sits deep down *in* water—heats *only water*—won't waste heat on air. Extra heating surface—longer life—no wasteful scale. See Frigidaire Water Heaters at your Frigidaire Dealer's.

• No fuel—no flues • No dirt—no soot • No wasted heat

Upright or table-top models—30 to 80-gal. sizes. Handsome table-top models have porcelain finished working surface that resists acid, grease, heat—wipes clean with a damp cloth. (Magnesium rod models for corrosive water areas.)

Frigidaire reserves the right to change specifications, or discontinue models, without notice.

Frigidaire families *live* better, because Frigidaire appliances *are* better

When it's in the bag

From page 116

Here's an attractive lunch box for a teen-age gal. Cream of tomato soup keeps hot in the thermos. Tastes good on a cold day

All right, let's face it—the worst thing about lunch boxes is preparing them. So organize to do it the easiest way possible. A big help is having a special corner of the kitchen for lunch-box preparation, near the refrigerator. Keep all the equipment you'll need nearby.

Plan the lunches a week ahead so you can avoid lunch-box fatigue (the same old thing every day). This also makes shopping easier, and you can plan to use up leftovers.

Do as much of your preparation ahead of time as possible. Make sandwich filling during the day and refrigerate in shallow, easily covered dishes. Keep butter or margarine at room temperature so it will spread easily. Wash vegetables and fruit and store in the refrigerator.

You'll save time in the morning if you make soups the day before and keep them in the refrigerator for quick reheating the next day. A dessert that requires special preparation should also be made the day before.

When you fix sandwiches, they'll taste better if you follow these simple suggestions. Cut day-old bread (too-soft bread may tear when spread with butter or fillings) thin with a sharp knife. Warm and cream the butter before spreading. Spread it well with a spatula out to the edges of each slice to keep filling from soaking into the bread. Use plenty of filling and spread it well out to the edges. Don't rely on white bread alone. Rye, pumpernickel, whole-wheat, raisin, and fruit bread all make a welcome change. Wrap sandwiches as soon as possible after cutting, to keep them fresh.

Remember, when you pack a lunch box there's no point in including foods a child doesn't like or won't eat. Don't let your youngster peek in his lunch box—half the fun is in being surprised.

When you pack the lunch, start with a

Opens cans easily

DAZEY CAN OPENERS

$1.95 to **$5.95** Cuts out entire lid of round, square, or oval cans. Lifts out of bracket or swings flat against wall. At hardware, home furnishings, and department stores.

Available with magnetic lid lifter. In colors

Be sure it's a **DAZEY** ST. LOUIS 7, MO.

No matter what else you take for

SUMMER COLDS

YOU NEED

BAYER ASPIRIN FIRST!

TO RELIEVE PAIN AND DISCOMFORT

FEEL BETTER FAST!

YOUR BOY WILL SAY "It's Terrific!"

Thrill your youngster, stimulate his imagination with this NEW, Bulldozer Tractor. With it he will do all kinds of constructive "play-work". Ruggedly built. Chain drive. Ideal for children up to age 12. **Sold Direct** from factory. Write today for **FREE** LITERATURE and TRIAL OFFER.

NEW BULLDOZER TRACTOR

INLAND MFG. CORP., Dept. SF-9
164 Ellicott Street, Buffalo 3, N. Y.

WOMEN WANTED TO MAKE MONEY

Turn spare hours into cash calling on friends, neighbors, and showing them beautiful, newest-style dresses, and lingerie, hosiery, children's wear, men's shirts, socks, etc. Take orders at amazingly low prices with big profit for you. No experience needed—and no money needed, ever. You can even get personal dresses for yourself without paying 1 cent!

SAMPLES FREE!

SEND NO MONEY—Rush name today for big package of **ACTUAL SAMPLE** fabrics and complete, colorful style presentation—all **Absolutely Free**—with complete instructions and money-making plans. Send in your name and address TODAY!

FREE! BIG PACKAGE Actual Samples

THE MELVILLE COMPANY
Dept. 7488, Cincinnati 25, Ohio

BINOCULARS

Made in Germany

Precision ground lenses; center focusing gives exact eye adjustment. Large 42MM objectives, 8 mile range, metal construction. Weight 10 oz. Extra wide field of view. **$3.95** postpaid

Satisfaction guaranteed or money promptly refunded. Send check or money order Dept. SF812.

Criterion Co., 331 Church St., Hartford 3, Conn.

clean container. The lunch box and thermos should be rinsed out with soap and water and allowed to air each night. Clean them weekly with soda and water.

Hot cocoa and soup will stay hot until lunchtime if you warm up the thermos by filling it with hot water. Let it stand while you prepare the drink. Empty it and immediately fill with the *hot* beverage. For a cold drink, fill the thermos with iced water beforehand.

Fresh lettuce, parsley, or any salad green should be wrapped separately to go into the sandwich later. If greens are for a salad, add a small covered container for salad dressing.

Wrap each food by itself in waxed paper, aluminum foil, or plastic bags. The foods keep better, the box looks neater, and the flavors don't get chummy. Label each package so the luncher knows what he's getting.

Cold foods such as salads and puddings can be carried easily in paper cups or small glass jars with fitted lids.

Place firm and heavy foods in the bottom of the lunch box, packing things compactly to avoid the shaking an average youngster will give a lunch box. Tuck eating equipment, napkins, and salt and pepper shakers in the corners.

Then you're ready to put the lunch box in your youngster's hand. With these suggestions in mind, you can be sure he's getting the right kind of lunch at noon.

Lunch-box menus for a week

Monday
Cottage Cheese and Peach Salad
Fruit Bread and Butter Sandwich
Meat Sandwich — Carrot Strips
Hot Chocolate
Latticed Cherry Pie

Tuesday
Sliced Corned Beef and Mustard
Sandwich on Rye Bread
Peanut Butter and Sliced Date Sandwich
Lettuce Wedge — Salad Dressing
Carrot Sticks — Dill Pickle
Milk
Baked Custard

Wednesday
Potato Salad with Frankfurters
Tomato Wedges
Bread and Butter Sandwiches
Banana
Chocolate Eggnog

Thursday
Cream of Tomato Soup
Peanut Butter and Bacon Sandwiches
Cheese-stuffed Celery
Apple — Chocolate Cupcakes
Surprise Package (seedless raisins)

Friday
Cream of Celery Soup
Double-decker Sandwich (one layer cheese, one layer ham on rye)
Orange Segments and Grapes
Oatmeal Cookies
Surprise Package (candy and peanuts)

The difference between this...

and this...

is often this...

You own the finest if it's a NEW

PAK-A-WAY

ALL LOW TEMPERATURE

HOME FREEZER

MORE FEATURES than any other freezer!

Only Pak-A-Way gives you *all* the features including automatic bell warning alarm, easily adjustable controls, large interior lights, locking latches, counter-balanced lids, removable baskets, shelves and dividers, full 5 year food spoilage and compressor warranty and the

EXCLUSIVE NEW

kolrod shelves*

ON UPRIGHT MODELS

The greatest advance in home freezing since the freezer itself.

Kolrod Shelves give faster freezing, uniform temperatures, greater visibility and quick defrosting.

*Patents applied for

18 FT. UPRIGHT MODEL

15 FOOT CHEST MODEL

PAK-A-WAY

Home Freezer Division

SCHAEFER, INC.

MINNEAPOLIS

Manufacturers of Low Temperature Refrigeration Exclusively Since 1929

Specify the Genuine

Heat-Houser

TRADE MARK REG. U.S. PAT. OFF.

SEE

YES! See your local dealer and see the GENUINE HEAT-HOUSER! Plan now to enjoy the protection of HEAT-HOUSER during those chilly tractor days. HEAT-HOUSER is compact and easily installed. HEAT-HOUSER is designed for Row Crop, Large Standard, Small Standard and Track Type Tractors. HEAT-HOUSER meets your every requirement.

WRITE FOR FREE CATALOG! THERE IS A DEALER IN YOUR LOCALITY

FORT DODGE TENT & AWNING CO. - FT. DODGE, IOWA

SEND FREE CATALOG

NAME

ADDRESS

CITY STATE

Red Danes

From page 45

Association. Between 750 and 800 farmers are using Red Dane semen in artificial breeding.

Just how good has the Red Dane proved to be? Its growth in popularity is one indication. Another is in the hard facts of the production records kept by farmers raising Red Danes.

The 7 Red Dane bulls at the Michigan Artificial Breeders Cooperative have a proof record of 360 to 392 pounds butterfat per daughter. There are about 100 records in this class. These records might not seem so startling until you realize that these bulls have been mated with beef cows, scrubs, and grade animals. They haven't been used on top-quality purebreds that have been bred up for years.

These bulls are starting from scratch in most cases, *putting production ability into ordinary grade cows on ordinary farms.*

Six bulls that were at the Michigan Artificial Breeders Cooperative bull stud earlier were checked for the production ability they gave their daughters. Records have come in on about 250 of their daughters now in production. These daughters are producing at the rate of about 370 pounds of butterfat a year.

Those figures give you a picture of what Red Danes can do. The records above are on an average of 60 daughters apiece. *And they're not selected records.* They include every record that had come in when the average was figured up.

Another proof of the value of Red Danes is the fact that they bring more on the market than animals of other dairy breeds. A. C. Baltzer reports that a check of some of Michigan's principal markets, and on farmers using Red Dane breeding, showed that vealers brought 5 to 10 cents more per pound on the market than those of other dairy breeds. And cows that have to be replaced bring more at the market, too. That's an important consideration when you figure that cows in the average dairy herd are replaced every five years.

A few Red Danes have been fed out to go to market as meat animals. Although they didn't bring as high a price as most of the beef breeds, they did sell for more than the dairy breeds of comparable age and weight.

Red Dane breeders have gone through some tough years of accurate record keeping and careful breeding. These dairymen have stressed production. They're interested in what kind of a contribution their animals make in the way of a bigger milk check. Sure, they're interested in pretty cows, but more important is how much milk goes in the milk can.

Lester Appel, Marlette, Michigan, is one of the original Red Dane owners. He got his first Red Danes in 1939. He now has about 75 head in all, with about 30 of these in milk production.

We asked Appel if he was still satisfied with Red Danes. Here's his answer: "My herd now is averaging better than 400

pounds. That's a great deal better than before I got the Red Danes. Does that answer your question?" It did, and we got the same answer from other Red Dane owners we talked with.

Appel had Shorthorns, Durhams, Holsteins, and Jerseys in his herd when he got his first Red Dane bull. He crossed all these breeds on the Red Dane bull. Here's what happened to production:

In 1939, Appel had 22 cows averaging 8,113 pounds of milk with a 4.25-percent butterfat average. Ten years later, Appel was milking 29 cows. *These cows averaged 10,114 pounds of milk with a 4.25-percent butterfat content.* That was a definite, money-making improvement.

Here's a typical example of what happens productionwise when Red Dane blood is introduced into a grade herd. These figures were taken from Lester Appel's production record book.

A Red Dane bull was mated to a grade Brown Swiss cow. The cow's fat record for four years on twice-a-day milking, 305-day lactation, was 255, 306, 268, and 428 pounds. The daughter of the Brown Swiss cow and the Red Dane bull had a four-year fat production record of *439.8, 455, 504, and 526 pounds on twice-a-day milking, 305-day lactation period.* Quite an increase for a first cross. But it's not unusual, according to other dairymen using Red Dane bulls on grade cows.

Harry Prowse, also of Marlette, is president of the American Red Danish Cattle Association. Prowse was one of the original cooperators in the Red Dane experiment. He began by crossing a Red Dane bull on his Shorthorn cows. Milk production jumped, and he has been a Red Dane booster ever since.

Today, Harry Prowse has 32 milk cows. He has sold heifers, but not many. He, like other Red Dane dairymen, is still building his herd.

Red Dane cattle are deep-bodied and fairly short-legged, compared to other dairy breeds. These animals have strong middles and good toplines. The true Dane color is a deep cherry red. That color helps when cattle go to market.

> **He who waits to do a great deal of good at once will never do anything.**
> —*Samuel Johnson*

In many of the Michigan herds, you'll find animals that aren't cherry red. For example, the first cross of a Red Dane bull on a Holstein cow produces an animal that is mostly black with a rust-colored topline. As more crosses are made, the red color becomes more evident.

The rules governing the American Red Danish Cattle Association leave little room for error. Here's why. Farmers in the program must belong to the Dairy Herd Improvement Association. When the offspring of a Red Dane bull finishes a lactation, the 305-day, twice-a-day-milking record is sent by the tester to the

[*Turn to page 122*

This advertisement is designed to help dealers supply farmers with more mixed fertilizer in 1953.

He's getting his fertilizer early. Last spring this farmer couldn't get the fertilizer he wanted because his supplier ran short. Result: He's taking delivery now on his '53 fertilizer needs.

Is There A "Best Time" To Buy Your Fertilizer?

Can you afford to gamble on spring delivery when others are ordering now?

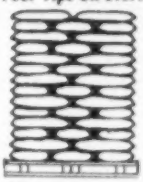
Were you able to get all the mixed fertilizers you wanted last spring? Lots of farmers weren't. As a result, they lost the income from higher yields which the application of fertilizer would have brought them.

One reason for this shortage was that too many farmers waited until they were ready to *apply* fertilizer before they ordered. This peak demand was too great even for the huge storage facilities of the mixed fertilizer industry, and thousands of shortages resulted. So long as such buying practices continue, the fertilizer industry faces a hopeless task in trying to supply everyone.

One answer to this problem, surely, is *off-season* buying and *on-the-farm* storage. This would enable fertilizer mixers to operate and ship throughout the year, and thus many more farmers would *get* the fertilizer they need to boost yields.

NOTE: All references to "fertilizer" in this advertisement refer to regular mixed fertilizer. Demand for Spencer 33.5% Ammonium Nitrate Fertilizer continues to exceed supply. Even though you order now, your dealer may not be able to supply you. We are operating our plants 7 days a week, 24 hours a day, and are doing our best to increase output.

Four Tips On Storing Your Fertilizer:



(1) Store in dry, well-ventilated building. (2) 2-by-4 spacers should be laid down for bottom bags. (3) Don't stack bags more than 15 high. (4) Leave space between walls and piles. In large warehouses, make an aisle every 30 feet.

Most farms already have buildings that are suitable for storing mixed fertilizers. That 10- by 10-foot space off in the corner of your barn, for example, will store nine tons. Or, if such storage space is not available, a general utility building for fertilizer storage might prove a money-making improvement. Main requirements for such a building are that it be well-ventilated, weatherproof and dry.

Only other problem in connection with farm storage is the money "tied up" in fertilizers between buying and applying time. Chances are your local banker can help you because he knows that fertilizer pays a mighty big rate of interest in the form of increased yields. You'll lose that and more if you *don't* get your fertilizer. As one farmer said, "I've about decided that the *best* time for me to buy my fertilizer is when I can *get* it!"

SPENCER®

Supplies the Nitrogen for top quality mixed fertilizers

FREE BOOKLETS

SPENCER CHEMICAL CO.
609 Dwight Bldg.
Kansas City, Mo.

Please send me:

____"You Can Grow Corn for 25c a Bushel"

____"Nitrogen Timetable for My State"

Name_____

Address_____

TOPS IN TOOLS

"KELLY PERFECT"

AXES

The minute you take the "Kelly Perfect" in hand, you'll know you're holding the finest axe made! Forged in one piece from a solid bar of the finest steel . . . power centered for efficient cutting and accuracy. Fire Hardened handles resist weather and wear—are power driven for perfect fit. At your favorite hardware store. True Temper Corporation, Cleveland 15, Ohio.

TRUE TEMPER

Corporation

FOR OVER 100 YEARS MAKERS OF FINE TOOLS, FISHING RODS, GOLF SHAFTS

Successful Farming's practical, up-to-the-minute information will help you and your family enjoy better farm living.

PROTECT MILK QUALITY THREE WAYS

with Perfection

DUBL-CHEM-FACED "Tripl-Filtring" FILTERS

SEE YOUR SUPPLIER OR *write for free samples*

SCHWARTZ MFG. CO., Two Rivers, Wis.
AMERICA'S FOREMOST MANUFACTURER OF FILTERING AIDS FOR DAIRYMEN

Red Danes *From page 121*

association headquarters at Fairview, Michigan. That is, if the farmer ever figures on registering the animal or her descendants.

With this arrangement, any time you are interested in buying a Red Dane, you can check on the exact production of the female ancestors back to the time the original Red Danes were brought to this country. This production registry also makes it tough for a farmer to sell a low producer, and it results in more careful culling and selection of breeding animals.

You can start in the Red Dane program with your own herd of cows. Some farmers have even started with beef herds, and many with ordinary grade dairy herds. But cows can't be registered until the third generation and bulls until the fourth generation.

That's another thing these original Red Dane dairymen have gone through. All of their first three generations of bull calves had to be culled and sold on the market. This was necessary because these animals didn't have enough Red Dane blood to carry the inherited high production and consistency that make this breed so popular.

With such high standards set by breeders, it's evident why Red Danes command respect in Michigan. But apparently their owners believe that such a rugged breeding program pays off. All of the original 14 farmers who started in the program still have their herds and are carrying on the breeding work. In some cases, sons or other family members are continuing with the Danes.

At present, no more Red Danes or semen from bulls is being allowed into the United States because of outbreaks of foot-and-mouth disease in Europe. But A. C. Baltzer believes that even if no more animals are imported, breeders in Michigan have a broad enough base on which to continue their breeding work.

The Red Dane breed has begun expanding outside of Michigan. About half a dozen bulls have been sold to farmers in Texas, Montana, Idaho, Wisconsin, and Illinois.

> **The best time for you to hold your tongue is the time you feel like you must say something or bust.**
> —*Josh Billings*

Baltzer sums up the Red Dane contribution to date this way: "They have offered our Michigan farmers a robust dairy inheritance, resulting in consistently high yields of milk with a 4-percent butterfat test. Red Danes look, and are, solid and substantial. They have firmly established themselves as a dairy breed with their desirable milking qualities and utility value."

As to the future of the breed, Baltzer says, "That depends on the present breeders. If they hold fast to the basic principles of good breeding and the dairy management practices that have led to their present success, they'll go places!"

The future looks bright for the Red Dane dairymen. More milk means greater profits. Yes, they like 'em pretty, but they like 'em to make money, too. **END**

Automatic stock waterers supplied by farm pond

Handy automatic waterers for cattle and hogs on pasture were installed when Logan Jones, Cameron, Missouri, built his farm pond. The waterers provide the livestock with a continuous supply of water from the pond.

A concrete-block wall was built into the dammed-up side of the pond. Both waterers are located next to this wall. About half of each waterer is buried under the dirt bank behind the concrete-block wall. A small paved apron in front of the wall eliminates mud around the tanks.—*T. E. Long.*

The drawing at the left shows the construction details of the pond stock waterer. The high tank is used for watering cattle and the lower tank is used for hogs. Two pipes leading from an inlet near center of pond keep both stock tanks full

HERE'S HOW YOU CAN

SAVE HOURS of WORK EACH WEEK with NEW DREFT

Scientific "Floataway" Action does the work for you!

Dreft's amazing "Floataway" Action floats away film, prevents milkstone—bacteria count drops...milk profits go up

You'll be amazed how Dreft's scientific "floataway" action saves you real work when washing milking equipment.

Milk pails, strainers, separators come sparkling clean without hard scrubbing. Dreft saves you valuable butterfat because it rinses milk-scum out of separators, preventing formation of milkstone. Bacteria count drops! Milk quality improves! No wonder farmers report bigger profits once they switch from soap to Dreft.

Buy the Giant Economy Size

Dreft's "Floataway" Action floats grease off dishes, too. Even pots and pans glisten without hard scouring

Use Dreft on your dishes just once, and see how it does your dishwashing work for you.

Simply let your dishes soak in warm Dreft suds for 2 minutes—give a swish of the cloth as you rinse . . . and you're through. Dishes and glasses shine without wiping.

Yet new Dreft is wonderfully mild—leaves your hands so soft and smooth. Try Dreft on your dishes today. See how Dreft takes the work out of dishwashing.

"As a dairy inspector I always recommend DREFT"

Saves work in the dairy
Saves work in the kitchen

All around the farm

"Glad we've got a GOULDS"

Egg production, milk production, meat production—everything's *better* on the farm when a dependable Goulds Water System is on the job. Pays for itself quickly—in time and labor savings—*keeps on* paying dividends year after year!

See 'em today . . .

The amazing Balanced-Flow Jet (illus.), a complete shallow well system that *needs no tank*. Also a new tank-mounted deep-well unit. *Both* at popular prices.

GOULDS PUMPS INC.
Dept. S-50, Seneca Falls, N.Y.

Please send details on your pumps and name of my nearest distributor.

Name .....

Address .....

.....

Now Many Wear
FALSE TEETH
With Little Worry

Eat, talk, laugh or sneeze without fear of insecure false teeth dropping, slipping or wobbling. FASTEETH holds plates firmer and more comfortably. This pleasant powder has no gummy, gooey, pasty taste or feeling. Doesn't cause nausea. It's **alkaline** (non-acid). Checks "plate odor" (denture breath). Get FASTEETH at any drug store.

HELPFUL SUGGESTIONS for solving all types of farm problems are found in each issue of *Successful Farming*.

Bee Line Tractor HOIST

Take-off-powered

For dozens of heavy lifting jobs on every farm!

The Bee-Line Hoist is easily mounted and does not interfere with drawbar. Raises loads for dumping—positive brake holds load in any position.

See your Dealer or
Write today for complete information.

Bee Line co.
DAVENPORT IOWA U.S.A.

Photograph: Fletcher

If this looks like your family, check below for easier ways to give children medicines

Medicine

and your child

By Beth Davenport

Every parent has been faced with the problem of giving an ill-tasting medicine or capsule to a reluctant child. Perhaps, like many a parent, you have given up in despair, and much-needed medicine has been neglected. Such need not be the case. There are few medicines that cannot be given when a generous dose of patience and imagination is added to the ill-tasting prescription.

Your attitude in giving the medicine is probably the most important single factor. If your "tricks" and "promises" have failed, it may be because you aren't a convincing storyteller. And the routine of "open your mouth quick and I'll give you a piece of candy after" is usually not enough to sell a youngster who already has an unpleasant taste association with the particular medicine.

You know your own child. Perhaps you can explain what the medicine will do for his or her illness. But if reasoning and rewards won't work, here are a few tips that might make life easier with a sick child.

An ice cube will help numb taste buds and lessen the taste of many medicines. Let the child hold the ice cube on his tongue before and after swallowing the medicine. It's fun and does offer some help.

The contents of most capsules can be mixed with honey or jelly and "served" with bread or toast. Occasionally medicines may be mixed with the child's regular food. This is a poor practice if the medicine taste is still discernible, as it may spoil the food taste for the child.

Aspirin can be crushed to a fine powder

[*Turn to page 126*

A little room can have a lot of charm

Before you saw this photograph would you have guessed you could put so much practical charm in a bathroom that is only 5 x 7 feet?

The secret is simple. The combination of Crane quality fixtures, so smartly styled, and the attractive cabinets under and above the lavatory, take this room right out of the commonplace into one with charm.

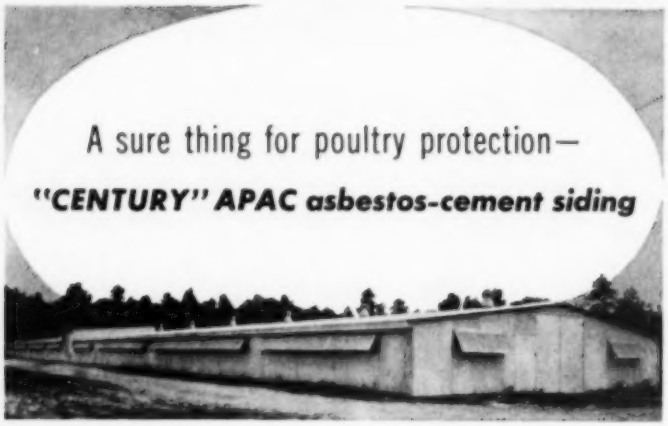
This Crane idea can be adapted for a second bathroom for your own home—or a small one for a tenant house—to make it a room you'll be *proud* of. Your Crane Dealer offers a complete selection of Crane fixtures in all price ranges to meet your budget. See him for details, or write Crane Co., General Offices: 836 S. Michigan Avenue, Chicago 5.

Only Crane supplies the complete water system . . . from pump to faucet.

COME TO

CRANE

FOR IDEAS



PROOF positive against fire, pests, and weather, "Century" APAC ¼" Asbestos-Cement Siding stands solidly between the thousands of chickens in LeGarde Poultry's big buildings at Easton, Maryland, and these ever-present-threats to poultry profits.

"Century" APAC, a tough combination of asbestos fibers and portland cement, goes up easily, as original siding or over existing walls. Its 4'x 8' sheets, in thicknesses of ⅛", ¼", and ⅜", can be scored and snapped off to fit right on the job, and then quickly fastened with nails or screws.

You'll find "Century" APAC economical, from first cost on, for siding all your farm buildings. Clean and attractive in appearance, it never needs painting . . . won't rot or rust . . . and actually improves with age. Ask your lumber dealer, or write direct.

Nature made Asbestos . . .
Keasbey & Mattison has made it serve mankind since 1873

KEASBEY & MATTISON
COMPANY • AMBLER • PENNSYLVANIA

Medicine and your child

From page 121

and given in milk or honey. Many children actually have great difficulty learning to swallow pills or capsules, making this type of application necessary even when the medicine tastes like peppermint candy.

If the doctor asks that your child drink more than an average amount of water following a particular type of medicine, remember that there are several ways to feed liquids. Gelatine is generally well liked by children, especially if it is a brightly colored gelatine and made in an attractive mold. Ask the doctor if your child can have ginger ale, grape juice, or other soft drinks. Fancy straws may help make these liquids more fun to drink. Ice gives you a variety of tricks. Homemade frozen suckers and colored ice cubes are good ways to "force" liquids. Soups and puddings are additional ways of getting the proper amount of liquid.

Make sure you understand the prescription directions before giving it to your child. Before leaving the drugstore or doctor's office, read the instructions carefully. If there is any doubt in your mind, ask questions then, not later.

When pouring medications, pour from the side opposite the label to prevent blurring of the directions. Always use a standard measuring spoon and see that it is used exclusively for medicine and doesn't make its way to the family table. It is also wise to discard old medicines after an illness, as they may be dangerous if used without proper instruction.

All medicines are not ill-tasting, however, and leaving pills where a child can reach them is dangerous business. Your child's medicine should be hidden as carefully as his Christmas presents—high on a shelf and out of sight.

There is always the chance of a reaction to any medicine that may have been prescribed. At the first sign of a rash, vomiting, or any other indications that your child is not responding to the medication, contact your doctor.

With these few suggestions and the help of your doctor and druggist, you can make medicine for your child a more pleasant and safe procedure. One caution—always remember to check carefully any procedure with your doctor. He will counsel you on additional ways of giving medicine and approve or disapprove any of your own methods. **END**

SUCCESSFUL FARMING

More profits

through direct marketing

Pride in the product you sell. That's reason enough for Perry and Carl Schwarzer, Fayetteville, New York, to do a good direct-marketing job. They market broilers, fryers, roasters, and capons under the trade name "Rockacres." Not only is a trade name used, but their name and address are on the package.

Can't keep enough birds on hand. The Schwarzers are producing a quality product and they're proud of it. As you may have guessed, they have no marketing problem. Their problem is keeping enough birds on hand.

Only birds which they produce are sold. They do as careful a job growing the bird as they do dressing and packaging it. They use an all-in, all-out system in both marketing and raising the birds. By fresh freezing, they have no resistance to frozen poultry. There is no carryover from flock to flock. This enables them to grow a uniform bird with very few culls.

They get premium price. Doing a good job and taking pride in the product make it possible for the Schwarzers to ask and get a premium price for their product. No cleavers are used on the chickens. Perry, a retired butcher, does a slick and clean job of cutting up the bird with a knife.

Eggs sold direct, too. Another example where direct marketing pays off is the program used by a group of Family Food Stores in central New York. They have a group of poultrymen supplying eggs direct to their stores. The poultrymen candle, grade, and carton the eggs in a special carton with the brand name, "Golden Acres Eggs," printed on the cover. Also on the carton are the grade, size, color, and the poultryman's name and address. If any complaints are made, they go direct to the producer.

The eggs usually are delivered twice a week directly to the store. The eggs are placed in the store's cooler, assuring the consumer of fresh eggs. Many of the stores have tripled their egg sales.

Extra profits to producer. "We are proud of this program and we're not going to have any complaints if we can help it," say Francis Snow and John Felix of Memphis, New York. The incentive premium the producers get more than pays for the extra services of grading, candling, and cartoning.

All marketing cannot be done direct or semidirect, but there is an opportunity for many to benefit from it. Wholesaling has a place, but it will never stimulate pride in one's product. The producer's identity must be carried directly to the consumer of his product. END

WHAT! Sacrifice my farm for 25¢ on the dollar?

Surely he was kidding!

After half a lifetime of work, I knew my farm was worth at least $100,000. I'd planned it for years as security for my family—if anything happened to me. No wonder I blew up at this talk of "forced sale" at 25 cents on the dollar.

When I settled down—the Bankers Life man convinced me I had overlooked my own safety—and showed me a similar case from his own files to prove it. It concerned a man with a farm the size of mine and the trouble his family had been through settling estate taxes after his sudden death. Here's the breakdown on that estate of $131,375.

Debts	$ 2,979
Income Taxes due	216
Administration Expense	1,087
Attorney's Fee	2,000
Executor's Fee	2,000
State Inheritance Tax	2,265
Federal Estate Tax	13,226
Total Costs	$23,773
Cash in Estate	9,545
Cash needed at once	$14,228

The "cash needed *at once*" was the item that stopped me. I hadn't figured it would be anywhere near that much. But I did know that it can be very difficult to get a good price for a farm in a hurry.

In any case, Estate Taxes are the law of the land, and it's a good thing the Bankers Life man acquainted me with these facts—and how to set up a plan to take care of them. Without his sound advice, my whole life's work could have gone up in smoke!

BANKERS LIFE COMPANY HAS A PLAN EVERY FARM OWNER SHOULD KNOW ABOUT!

. . . A plan that provides protection against such tragic loss. This Bankers Life Plan safeguards your farm from the catastrophe of "forced sale" to settle your estate taxes. Unless you know exactly what your own situation would be, today isn't a minute too soon to find out. Mail the coupon below. Get absolutely free the booklet that will show how to prevent this happening to *you!*

1½ BILLION DOLLARS INSURANCE IN FORCE . . . POLICYHOLDERS FROM COAST TO COAST

BANKERS *Life* COMPANY

Home Office: DES MOINES, IOWA • ESTABLISHED 1879

Branch Offices in Principal Cities from New York to Los Angeles

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This FREE booklet tells all about it!

BANKERS LIFE COMPANY, Dept. SF-92
Des Moines 7, Iowa

Please send my FREE copy of your booklet "How To Avoid The Risk Of 'Forced Sale' To Settle Estate Taxes."

Name _____

Birth Date _____

Business Address _____

Home Address _____

Nothing else does it so well

Sani-Flush is made for this one purpose — to clean toilet bowls. It works chemically. No messy scrubbing. Also disinfects, and removes the invisible film which is there whether you see it or not. Quick, easy, sanitary. Just follow directions on the familiar yellow can. At all grocers. The Hygienic Products Co., Canton 2, Ohio.

Sani-Flush

Now **PERFUMED** with a mild, fresh fragrance

UP TO $100 IN A MONTH JUST FOR *WEARING* AND SHOWING LOVELY DRESSES!

Ladies—get beautiful dresses **without paying a single penny!** And—make up to $100 in a month just by wearing and showing them to your friends! Choice of 150 glamorous models given to you as a bonus. No obligation—no canvassing—no experience. Just our way of **advertising.** Everything sent **FREE.** Send your name, address and dress size on postcard. Hurry! Openings limited. **FASHION FROCKS, INC.** Studio K-3022, Cincinnati 25, Ohio.

DAY-n-NIGHT MAILBOX MARKERS

Reflector lettering—glass beads mirror light at night (like road signs)
Permanent embossed letters and numbers 1½" high
Lifetime aluminum—rustproof
Baked enamel—white beaded letters—black background
Double plate 18" long—reads the same from either side

These attractive markers make thoughtful gifts — and make it easy for friends to find your home DAY-n-NIGHT. Install in a minute. Any wording you want, up to a total of 15 letters and numbers. PLEASE PRINT CLEARLY.

C.O.D. if desired—add postage, sales tax (Colorado residents add 3% sales tax)

Quantity discounts to clubs, church groups, etc., for resale. Write for details.

MAILBOX MARKER
No. one mail box

$1.95 POSTPAID

Spear ENGINEERING COMPANY
350 Spear Bldg., Colorado Springs, Colo.

SATISFACTION GUARANTEED OR MONEY BACK

It's all done with mirrors

You know from experience how the light reflected from a mirror or piece of glass flatters your face and adds sparkle to your room. There's no reason why you should limit this attractive principle to your bedroom or bath—it can be used throughout the house.

Glass or mirror tops are ideal for coffee tables, shelves, dressing tables, or any surface that needs frequent cleaning. If you have such a surface that you want to cover, you'll find it easier to carry a paper pattern to the glass cutter than the object itself.

You can use any large piece of paper to make this pattern. If you're measuring a shelf, be sure the paper fits flush against the wall. Hold the paper smooth with one hand while you bend it down over the edges of the shelf. Then mark along the edge with a pencil, holding the paper firmly while you trace along the edge.

A coffee table, or table of any kind, is easier to measure for glass because you have a larger surface to work on. If the table has a raised edge, fit the paper carefully inside it before even starting to mark the pattern. To hold the paper in place, cut holes in the middle of the pattern and tape it to the surface. Then draw carefully around the edge just as you would for shelves.

A square or rectangular pattern is easier to make because you can measure it. One word of caution: use a steel or wood measure, because a cloth tape measure has a tendency to stretch and throw your calculations off. Measure all four sides of such an object for absolute accuracy.

When you have cut the pattern for your table, try it on to double-check the size. It will be less trouble to do this than to have an extra piece of glass cut. When you're measuring a surface for a mirror, be sure to mark the "up" side of the pattern clearly so the glass cutter will know which side of the surface you would like him to silver. This is especially important for an irregularly shaped piece.

If you'd like your room to appear larger and lighter, there are a number of other ways to use mirrors. Wall mirrors give an illusion of space to a small or narrow room. Instead of investing in a large painting to hang over the fireplace or sofa, try paneling the surface with mirrors. A trip to the dimestore will save you the high cost of a piece of mirror large enough to do a good job.

First, measure the amount of wall space you want covered by mirrors. This should not be quite as wide as the furniture grouping or sofa you have against the wall. (See drawing below.) You'll be able to find small, unframed mirrors with an adhesive backing at almost any dimestore or dry-goods store. Get enough of these to cover the space completely, and stick them up on the wall so the edges touch. You'll find the paneled effect of many small mirrors more interesting than a single mirror.

Do you have a question?

Through our Farm and Home Service Bureau, *Successful Farming* offers you individual, personal-letter help with your individual problems.

This service is offered to you without any charge whatever.

In order that we may form an accurate picture of your questions, outline all details clearly when you write. If referring to a magazine article, mention page number and month of issue.

Address your inquiry to The Farm and Home Service Bureau, *Successful Farming*, Des Moines 3, Iowa.

"My Dodge ½-ton pick-up truck is always on the job and is the handiest truck I've ever owned. I use it to haul stock, grain, farm equipment—just about everything around the farm."

"Our Dodge has gyrol Fluid Drive and that means there's always smooth power on tap, without bucking or stalling. It's a big help in driving because there's less gearshifting to do. Works fine in mud or snow, too."

"Dodge is the most economical farm truck you can buy"

...says Wisconsin farmer

"For my money, our Dodge ½-ton *'Job-Rated'* truck is the most economical farm truck you can buy," says Melvin Rickmeier of Plymouth, Wisconsin. "You just can't beat it for good gas and oil mileage and low upkeep costs.

"My truck has plenty of power wherever I use it. I never have any trouble because of all that power in my Dodge . . . and that's why I'm always surprised at how easy that truck is on gas.

"The Dodge seems to have everything a farmer needs and wants in a dependable truck that keeps costs down. I don't think you can find a truck better fitted for farm work."

"My daughter-in-law uses the Dodge—and she says it's just about the easiest steering, easiest riding and easiest operating truck we've ever had . . . and she's right! I certainly appreciate the sharp turns you can make with this Dodge."

★ ★ ★

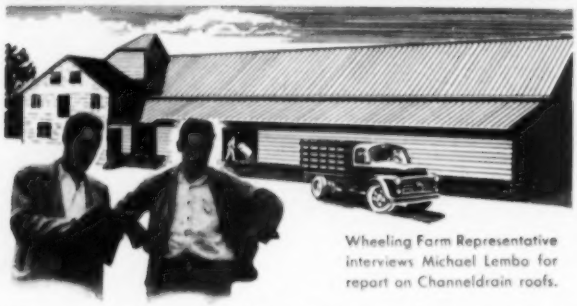
Dodge *"Job-Rated"* trucks are serving many, many farmers with the same outstanding economy. Why don't you find out how a Dodge farm truck will cut *your* hauling costs? Your Dodge dealer will welcome a chance to talk with you. Make it soon.

DODGE "Job-Rated" TRUCKS

SUPER
Channeldrain®
ROOFING NEWS

Farm Representative reports:

MORE PRAISE FOR CHANNELDRAIN ROOFING



Wheeling Farm Representative interviews Michael Lembo for report on Channeldrain roofs.

"Very good roof..." says warehouse owner

SUPER-CHANNELDRAIN ...BETTER 3 WAYS!

1. Extra Lap for more thorough drainage.

2. Extra Strength of sturdy COP-R-LOY Steel.

3. Extra Rust Resistance from protective zinc coating.

When it Rains it Drains!

"Wheeling Channeldrain is a very good roof. The roof on my cold storage building was installed in 1949 and has given good service...is good looking." So states Michael Lembo, owner of a 250 acre apple orchard in Modena, New York. *More* praise from one of many satisfied Super-Channeldrain users throughout the country. It's the *extras* on Wheeling Super-Channeldrain Roofing, illustrated below, that make it so durable, so economical. For roofs...for siding ...extra protection from wind and weather—use Channeldrain. *It's Proved!*

WHEELING WARE WINS ACCLAIM, TOO!

Rust-proof, leak-proof Wheeling Ware ... hand-dipped in Dura-Zinc-Alloy *after it's made*. Stronger, lasts longer ... made of sturdy, solid steel. Try the *ware that wears and wears* —buy Wheeling!

PAIL

ROUND TUB

Wheeling

WHEELING CORRUGATING CO.
WHEELING, WEST VIRGINIA

Please send information on items checked.

☐ Channeldrain Roofing ☐ Wheeling Ware

NAME_____

STREET_____

CITY_____ STATE_____

OFFICES AND WAREHOUSES:

Wheeling · Atlanta · Boston · Buffalo
Chicago · Columbus · Detroit · Kansas City
Louisville · Minneapolis · New Orleans
New York · Philadelphia · Richmond · St. Louis

Worms

From page 37

Roundworms

Probably the most prevalent—and expensive—of all worms in poultry is the large roundworm. Roundworms have a direct life cycle, going directly from chicken to chicken by way of the ground. The worm eggs pass out through the hens' droppings. Then, in about 2 weeks, the eggs hatch into tiny worms. However, the worm doesn't break out of the shell but stays in the shell, often for many months. In this state, worms can live over the winter and are often picked up by pullets the next year.

Soon after the worm egg is picked up by the hen or a young pullet, the worm breaks out of the shell and burrows into the intestine wall, living there for about 2 weeks. Then the worm comes out into the intestine, feeding on the nutrients by absorbing them into its body. Often, the intestine becomes inflamed due to constant irritation and a poisonous substance secreted by the worm. The result is a weakened bird which is more susceptible to other diseases.

In severe cases, the intestines become so full of roundworms that feed has a hard time passing through. The adult female worms start producing eggs at about 6 weeks of age.

Sanitation and treatment are the two most common tools for breaking the roundworm cycle. Nicotine, in the form of capsules, powder, or liquid, knocks out most of the roundworms. The only ones which survive are the young ones which burrow into the intestine wall. A good time to treat for roundworms is when the pullets are moved into the laying house. Repeat the treatment in 3 or 4 weeks, to catch any worms missed by the first treatment. Follow labeled directions closely.

Range rotation is another good way of breaking the cycle. Most roundworm eggs live over one winter, but few live a second year. A clean range each year will go a long way in cutting down on roundworm infestation.

Another practice which is cutting down on roundworms is deep litter. The worm eggs get lost if the litter is kept well stirred and limed. Then too, molds and bacteria attack and kill many worm eggs. A well-balanced ration, sanitation, range rotation, and repeated treatment remove most of the roundworm threat to your flock.

Cecal worms

Watch a good poultry serviceman "post" a chicken or turkey. Before he completes the job, he will pick up the ceca and clip off the ends. Often, he will see a number of squirming little worms about as thick as a thread and around ½ inch long.

Cecal worms have a direct life cycle like that of the large roundworm of the small intestine. The ends of the ceca are their favored home. They do not burrow into the wall, but lie under a mucous

covering for about 10 days after hatching, causing the ceca to become inflamed. A toxic substance is secreted by the cecal worm, causing young chickens to be somewhat droopy. This is especially true when the worms are present in large numbers. Young birds are weakened, making them subject to other diseases. Older birds don't seem to be damaged much by cecal worms.

Turkey growers dread cecal worms because cecal-worm eggs harbor blackhead "germs." The "germs" find their way into the cecal-worm eggs and live there for long periods. Unprotected, they would die in a few hours.

Turkey raisers have learned the value of clean range. Both cecal worms and blackhead can be controlled by careful sanitation and raising young birds on clean range each year.

Should cecal-worm infestation get heavy, treat with a medicine containing phenothiazine. It is almost 100 percent effective against cecal worms and is widely used in worm tablets and powders. Repeated dosages according to directions and sanitation measures can rid your flock of the cecal-worm problem.

Tapeworms

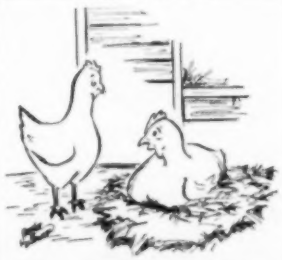
Tapeworms are a serious problem when present. They weaken the birds and subject them to other diseases. Heavily infested birds may get lame, and often have a nervous twisting of the head. The tapeworm has a complex, indirect life cycle, but all too often the cycle is completed.

The eggs are contained in segments of the tapeworm. These segments break off in the intestine and pass out of the bird in the droppings. Insects pick up the white tapeworm segment, consuming the tapeworm eggs along with the segment. The tapeworm eggs then hatch and develop in the insect (such as flies, beetles, earthworms, ants, or grasshoppers). In about 3 weeks the tapeworm has developed a head and neck. In this state, it can live in the insect over winter if necessary.

When this infested insect is eaten by a chicken or turkey, the tapeworms break out in the small intestine. They attach themselves to the lining of the intestine, absorbing nutrients from the intestine after the feed is digested by the bird. In a

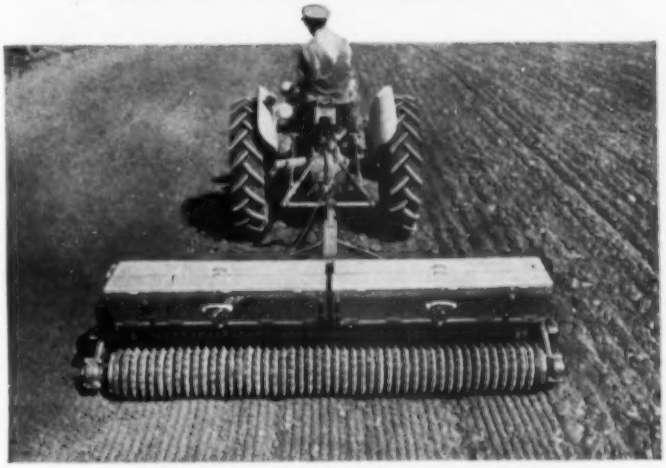
[*Turn to page 132*

SUCCESSFUL FARMING



"I'd love to go, but I don't know where I'd get a sitter!"

The difference between success and failure in grass seeding is only 1/2 INCH



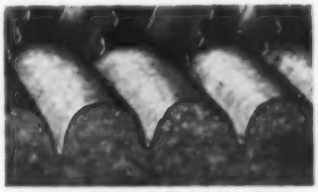
The Brillion seeding method gives you better stands, saves seed

UNIVERSITY tests and hundreds of farm field demonstrations show that grass seed planted deeper than ½ inch is wasted. The best stands come from shallow, accurate-depth seeding.

With the Brillion Sure-Stand Seeder you plant all of the seed within the top ½ inch of soil. As the tests show, this means you get a better stand. Moreover, you save seed...as much as ½ or more.

But shallow planting is only a part of the Brillion Sure-Stand story. The front packer wheels crush unfriendly lumps... the seedmeters measure out the exact amount you want. The rear packer wheels firm the soil around each seed for fast germination so you get a sure stand of grass.

Look into the Brillion way... get all of the facts from one of Brillion's 4000 dealers... or use the coupon below.



Accurate-depth seeding with a Brillion Sure-Stand controls planting depth to exacting limits—places each seed within the top ½ inch of soil where it germinates readily, grows rapidly.

Precision-built seedmeter measures seed to exact amount you select. Handles tiniest seeds without waste or over-seeding.

Ball and socket mounting lets the Brillion follow the lay of your land... resists axle distortion, covers uniformly.

Brillion

SURE-STAND GRASS SEEDER

Pays for itself in two days' use with the seed it saves!

BRILLION IRON WORKS, INC., Dept. SG-1-9, Brillion, Wisconsin

Please send me complete information on the Brillion Sure-Stand Seeder as well as the items checked below. I seed about.....acres for hay and pasture each year.

☐ **Brillion Pulvi-Mulchers**

☐ **Brillion Pulverizers**

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Town.....RFD.....

County.....State.....

Watch V-C grow meat and milk

Your dairy cows greatly increase milk production and your beef cattle rapidly put on valuable weight, when V-C Fertilizer helps your pasture to produce big yields of low-cost, high-quality grazing.

Your V-C Agent can supply you with the *right* V-C Fertilizer for your particular pasture program. This better fertilizer contains the plant foods your grazing crops need to make quick, vigorous growth, rich in proteins, minerals, vitamins and other nutrients.

Your livestock harvest this succulent, nutritious, appetizing, green feed and convert it into low-cost, high-quality milk and meat.

You get more and better grazing—and extra grazing days, early and late—for extra profits. Start now to use V-C Fertilizer on your pastures!

WATCH V-C GROW GRAIN!

Use V-C Fertilizer for small grains and watch your crop make vigorous growth this fall, developing sturdy plants with strong root systems that resist winter injury.

Next spring watch your whole field thrive with healthy plants which are loaded with big yields of high-quality grain at harvest time!

See Your V-C Agent Today!

V-C Fertilizers are famous for crop-producing power and easy-drilling quality. Each V-C Fertilizer is a rich, mellow blend of better plant foods, properly balanced to supply the needs of the crop for which it is recommended.

Tell your V-C Agent you want the right V-C Fertilizer for each crop you grow. See what a big difference these better fertilizers make in your yields and your profits!

Worms

From page 131

few weeks, they grow to maturity. Some varieties of tapeworms are too small to see, but most of them grow to several inches in length and up to $\frac{1}{8}$ inch across. Tapeworms are bisexual, so all of them can produce eggs.

Tapeworms are more of a problem in the South, where insects are active over a longer season. However, they must be battled all over the country.

The tapeworm cycle can be broken in several ways. Cleaning the houses, sanitation, killing intermediate hosts, and giving tapeworm medicines are the most common measures. Brooding and rearing birds on clean range helps keep them away from infested intermediate hosts (insects). Reduce the insect population by using DDT, lindane, or methoxychlor.

Your poultry serviceman or veterinarian has on hand products in the form of tablets and powders which do a good job of getting rid of the common tapeworms, heads and all. Experimental work on some of the new "tapeworm tablets and powders," which also contain ingredients for killing roundworms and cecal worms, shows they are efficient and seldom cause serious setbacks to the flock. Give 1 tablet to a bird, or mix powder into the mash according to the directions on the label. Repeat treatment as often as necessary—once a month breaks the cycle.

Gapeworms

While tapeworms, roundworms, and cecal worms are of major importance, many other worms cause severe damage when they hit a flock. Gapeworms, for instance, can clog the windpipe, causing the birds to "gape" or gasp for breath. They grow in the windpipe (trachea) and cause mechanical clogging and irritation. The male and female are permanently joined together, giving them a Y-appearance (see drawing, page 36). The female is about $\frac{3}{4}$ inch long, the male about $\frac{1}{4}$ inch long. They are reddish in color.

Prevention is the best control of gapeworms. This worm can have either a direct or an indirect life cycle. The earthworm often acts as the intermediate carrier. When chickens are not around earthworms, there is less danger of gapeworms. Turkeys often harbor a few gapeworms, and when they are kept over the winter and allowed to run with young turkeys or chickens, they can spread gapeworms to the young ones.

The gapeworm has a peculiar cycle within the bird. Apparently, the young worms move from the intestine to the circulatory system, then to the lungs. From the lungs they crawl up the trachea and attach themselves. They get nourishment by sucking blood.

Chickens usually develop a resistance and throw off the infection after 3 months of age. If kept away from turkeys, old runs, and earthworms, chickens will seldom have gapeworms. Gapeworms may be removed mechanically by doubling a

light nylon fishing leader or horsehair, pushing the looped end into the trachea, and twisting it as it is removed.

The birds also can be placed in a closed box and dusted with barium antimonyl tartrate. Breathing this dust for a few minutes usually dislodges the worms, and coughing expels them. Remember that diseases such as laryngotracheitis, bronchitis, and colds also can cause gasping. Call it gapeworms only when the worms are observed in the trachea.

Capillary worms

These worms are very slender and from 1 to 2 inches long. Although almost as long as large roundworms, they are scarcely visible. Several species affect poultry, some having a direct life cycle, others an indirect cycle with earthworms and beetles as intermediate hosts. Some capillary worms are found free in the crop; others infest the small intestine where they imbed themselves between the villi. They cause inflammation and a mucous secretion. Heavily infested birds appear unthrifty, and production drops. Worm eggs pass out with the droppings, mature, and are either picked up directly by the birds or develop in worms or beetles which, in turn, are eaten by the bird.

As these worms are not often a problem, no commercial treatments are advertised specifically for their control. In all probability, use of a nicotine and phenothiazine preparation for large roundworms and cecal worms will do a pretty good job of controlling capillary worms.

Gizzard worms

Gizzard worms are small roundworms which burrow under the skin lining of the gizzard. They are about $\frac{3}{4}$ inch long and reddish in color after a meal of red blood. They often burrow into the muscular part of the gizzard. Gizzard worms are not a widespread problem, but digestion of feed is poor in affected birds. Production of infested layers drops.

The worm has an indirect life cycle, the grasshopper acting as the intermediate host. The larval worm develops about 30 days after the eggs of the worm are eaten by the grasshopper. Break the cycle by disposing of gizzard-worm eggs (which are in the droppings) so that grasshoppers cannot contact them. Also, prevent contact with grasshoppers by confining the birds, or by killing grasshoppers.

As this worm is usually under the lining of the gizzard, it is impossible for treatment to be very effective. Nicotine treatment (the same as for roundworms) and iodine treatment repeated, helpsome. Fortunately for the poultryman, this worm is not prevalent.

Globular worms

Two worms affect the proventriculus. One is the globular worm, the other a spiral worm. The globular worm appears reddish and is a little smaller than a grain of wheat. Each one lives in, and destroys, a gland in the proventriculus. It has an indirect life cycle. Cockroaches or grasshoppers act as the intermediate host.

[*Turn to page 134*

Again in 1952 . . .

MORE FARMERS PLANTED MORE FUNK'S G-HYBRID SEED CORN THAN EVER BEFORE

The reason is plain. Good farmers know a good product . . . they stick to it . . . and they tell their neighbors and friends about it. Our customers are our best advertisers. As a result, each year for five straight years, more farmers have said: "It's Funk's G for me!"

For more than 30 years, Funk's G-Hybrid research workers have been continually on the job—making good G-Hybrids better. Today, no matter where you farm; no matter what your needs in corn . . . you can depend on Funk's G-Hybrid nation-wide research to furnish you 5-Star Balanced Funk's G-Hybrids that will make top yields of quality corn in good seasons or poor.

YOUR CORN GUIDE IS READY NOW . . .
Be sure you see your dealer and get your free copy of the new 1953 Funk's G-Hybrid Guide for your locality. Nearly 80 different G-Hybrids are being produced this year. Your edition of the Corn Guide describes those outstanding G-Hybrids developed especially for your farming conditions. Printed in full natural color. Ask your dealer.

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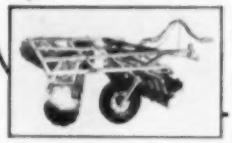
It takes a mighty good disc harrow to stand up under rough and rugged field work year after year. Yet, Roderick Lean disc harrows have this dependable performance record that adds up to more time and money savings at less man-hours of work. You owe it to yourself to own one of these "champion performers".

Features of the Roderick Lean "DISKWIK"

- Sturdy construction—balanced frames—made of high carbon steel.
- Single rope or hydraulic control for angling gangs.
- Heavy-duty, double thrust bearings.
- Non-clogging scrapers.
- Advanced snubber design to keep discs cutting at full depth from end to end.
- Sizes 5, 6, 7 and 8 ft.

THE DISKWIK

Does a fast, easy and efficient job of seed bed preparation.



THE MOBIL-DISC

It's fast . . . flexible . . . tough. It saves up to 5 gallons of gasoline a day. Equipped with the "Indestructo" bearing that carries a five year guarantee. Ideal for all types of farming. Amazingly low priced. Comes in 7, 8, 9, 10 and 11-ft. sizes.

See YOUR FARM TOOLS, INC. DEALER FOR THESE LABOR-SAVING RODERICK LEAN DISC HARROWS.

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Home Planning Help There's a store near you offering **Successful Farming's** home planning service. See page 95 for more about this service.

"Poor George! Guess he must have forgotten to put on his WRIGHT'S HEALTH UNDERWEAR!"

Styles may come and styles may go, but for cold-weather comfort there's nothing like Wright's Health Underwear next to your skin. Since the Gay Nineties, Wright's union suits, shirts and drawers have been the favorites of outdoor men for trim, easy fit . . . extra-long wear. Get your Wright's Health Underwear *today!*

WRIGHT'S HEALTH UNDERWEAR CORPORATION, 345 BROADWAY, NEW YORK 13, N. Y.

Worms

From page 133

This worm has a slow life cycle, requiring about 6 months to complete. It is seldom a problem where old birds are sold each year and where good sanitation practices are followed.

The small reddish worms are found in the glands of the proventriculus. From the outside, they will appear as a bluish spot in the wall of the organ. Large numbers interfere with digestion, causing swelling of the proventriculus, diarrhea, and stunting of the birds. Regular roundworm treatments (nicotine and phenothiazine), which start dissolving in the crop, are the most effective treatment. The powder form probably is best, as some tablets don't dissolve until they reach the gizzard.

Spiral worms

The spiral worms live about half buried in the wall, and half out of the wall inside the proventriculus. These worms appear very much like cecal worms, except they are coiled. A heavily affected proventriculus may be swollen and ulcerated. Tumors often form at the site of attachment.

The pill bug (sow bug), often found under damp boards, is the intermediate host in an indirect cycle. Control of this intermediate host helps prevent the worms. Regular roundworm treatments which start dissolving in the crop usually are partially effective against proventriculus worms.

Eye worms

Another worm found mostly in the South, especially around the Gulf States, is the eye worm. This small white worm is found between the filmy membrane under the eyelids and the eyeball. It causes inflammation, swelling, and in advanced stages, a cheesy accumulation. Affected birds become thin and die. In the early stages, the membrane under the eyelids will be in continual motion. The chicken may scratch at the eye with the feet. Eggs are washed down the tear duct, swallowed, then excreted with the droppings.

The cockroach acts as the intermediate host in an indirect cycle. When the cockroach is eaten, the young worm breaks out in the digestive tract. It finds its way back up the food channel to the mouth, then through the tear duct to its new home.

Affected birds should be examined and the worms removed. A thorough cleanup with the use of DDT and sodium fluoride or lindane to get rid of cockroaches will eliminate the eye-worm problem in your poultry flock.

Poultry owners must be ever alert for the presence of internal parasites. When they are found in the flock, every attempt should be made to break the life cycle by cleaning, deworming, and fighting intermediate hosts. Halfway attempts won't do—it takes a continuous effort on the part of the flockowner. Remember: *to maintain a worm-free flock, break the cycles.* **END**

The family farm

Sometimes the problems of maintaining our almost sacred institution of family-sized farms in America depress me. Right now there is the rising cost of farm operation, and the much greater need for skill in handling large amounts of short-term money. Current sources of credit are no longer adequate for all classes of borrowers. And then, there is the old, old problem of each generation's being asked to pay for the farm producing plant. Amortized loans and variable payments have helped some.

In a recent visit with Allan Kline, president of The American Farm Bureau Federation, my concern over current trends came to the surface. Together, we reviewed the obstacles overcome in the last 30 years by the family-type farmer. We agreed he had by no means exhausted his potential, and the future looked good.

I felt sure the average farm could not bear the cost of an automobile when the first ones appeared 35 years ago. You know the answer—some farmers did go broke. But, having risen to a new level, farmers will continue their progress.

According to the Bureau of Agricultural Economics, the living standard of farm-operator families rose 54 percent between 1940 and 1950. The rise was generally faster in the areas of rapid mechanization. Even during the severe Depression of 1930 to 1940, when drouth and dust storms were at their worst, only one region of the country showed a decline of living standards, and that was only 7 percentage points!

Certainly the social, economic, and political advantages of the family-farm plan are great. And the system must contribute to the national welfare, because the family-sized farm is not an end in itself. We could produce food and fiber on vast estates operated by hired labor. But we don't want to do so, nor shall it be necessary if we remain alert to the problems that beset our present system.

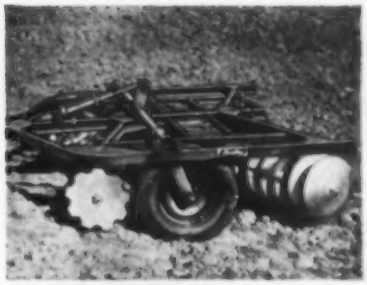
I do not think increasing size of farms need worry us so much as the tendency to reduce farm size to the point of making it impossible for a farm operator to support a family and maintain the soil.—*Kirk Fox.*

So you're going to move . . .

Please be sure to send your change of address to *Successful Farming*, Des Moines 3, Iowa, five weeks before you move, if possible.

Give both your *old* and *new* addresses. A clipping of the stenciled label from a recent issue will help us to see that you don't miss any copies of your *Successful Farming* subscription.

NOW! DISK DEEPER



Rugged RAM-DISK penetrates deeper, cuts thru stalks, trash and sod. Heavier, rigid bridge-type welded frame supports entire width of harrow; no overhanging of gangs.

Hydraulic finger-tip control ranges from hub-deep disking to 6-in. road clearance. Disk lifts on air tires to turn, to save waterways, for road travel.

2 models — 12 sizes. Includes new, lower-priced Standard RAM-DISK. No other disk gives you long life, super wearing Tellurium bearings.

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Continuous Power from your Tractor

MITY MIGET LIVE POWER TAKE OFF!

The MITY-MIGET is needed on tractors for live (continuous) power for increased efficiency and to operate the hydraulic pump, sprayer, etc. Saves trouble of putting tractor in neutral when using hydraulic equipment. Fits any tractor with flange type magneto. Circular FREE.

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GRADES WHILE IT CLEANS

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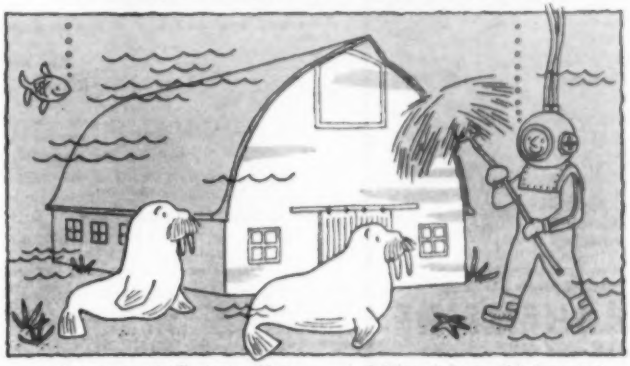
FARM & CUSTOM sizes. Electric, gasoline, and hand models.

J. W. HARCE MFG. CO. Westerville, Ohio

What! Barns for Sea Cows?



• Chances are you'll never add sea cows to your herd, but remember . . . a single dairy cow gives off over a gallon of moisture as vapor every day. That's why it's good to know Rilco uses waterproof resorcinol glue in the precision manufacture of barn and utility rafters. Even when submerged under water this glue remains strong and waterproof.

And Rilco gives you this important quality feature at no increase in price! Look for "Exterior" and "Rilco" marked on every rafter. You'll then be certain of getting the finest Douglas Fir permanently bonded with waterproof glue into an engineered one-piece structural member.

There's a Rilco rafter for every type and size farm building. Get money-saving details from your lumber dealer or write for free literature.

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ONLY GENUINE RILCO RAFTERS BEAR THIS TRADEMARK. YOUR ASSURANCE OF A DEPENDABLE ENGINEERED PRODUCT

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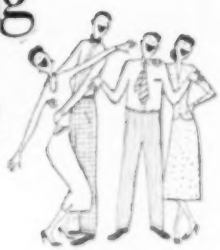

Tonsorial Treatment

The drouth had done severe damage to the hay crops, and the misfortune was being discussed by two neighboring farmers.

"My hay was so short that it was practically a waste of time cutting it," said the first.

"You should have seen mine," said the other. "I had to lather it to mow it."

Unimpressed

A man was proudly showing his guest the breath-taking view from his ocean-front home.

"Just look at that beautiful sea!" the home proprietor rhapsodized. "See how those huge whitecaps come rolling in! Look at the foam as it beats against the shore! And look at the gorgeous purple tint it picks up from the setting sun!"

As the host paused triumphantly, the visitor rubbed his chin, then drawled, "Is that all it does?"

Daring Move

"How are you getting along with your driving?" a 16-year-old was asked.

"Oh, fine," she bragged. "Yesterday I went 50 miles an hour, and tomorrow I'm going to try opening my eyes when I pass another car."

Everything Within Reach

"Will you tell the court exactly what passed between you and your wife during the quarrel?" asked the judge.

The defendant thought for a minute, then replied: "One flatiron, a rolling pin, six plates, and a teakettle."

The Error of Our Ways

(*Calls From the News Columns*)

Ravenous Bigwigs

Ken P., president of the company, will top an advance guard of directors who will check on meal facilities. The team will eat the Colonial Hotel in Delavan before and after the game.—*Aurora (Illinois) Beacon-News.*

Slightly Inconvenient

J. R. was in town Wednesday. He says he feels better than ever, and that his right shoulder, bothered by swelling for several weeks, has completely disappeared.—*Emmet Valley (Pennsylvania) News.*

Let the Buyer Beware

Before you buy a new or used truck, see us for a bitter deal.—*Car dealer's ad in a Lima (Ohio) paper.*

Unaccompanied?

Lost: hearing aid. Last seen on Hill Avenue bus Thursday afternoon.—*Pasadena (California) Independent.*

Politics Will Do It

Robert West of Route 2, Boyne City, is a radical patient at Little Traverse Hospital.—*Mason County (Michigan) Press.*

SUCCESSFUL FARMING

"Steel buildings are the strongest"

says Paul Hoy Adel, Iowa

PAUL HOY wanted a building that would last a long time and give him plenty of low-cost storage area that was wind and rain-tight. After a lot of shopping around, he bought a *steel* building, measuring 36 x 60. Here's what he says about this handsome new structure.

"I think steel buildings are the strongest and most substantial buildings a farmer can construct for his farming operation. They are fire-proof, rodent-proof, and stand up under all changes of weather conditions.

"When you use steel, the building can be put up so there is no post construction to fill your storage space. The U·S·S Roofing and Siding Sheets are put on with galvanized lug bolts and rubber-faced washers. This is about the strongest sheet-fastening method there is.

"Another thing I like about these steel buildings is the fact that you can put doors and windows anywhere you like, because with steel you can cut and weld together as desired."

Send the coupon and get more facts about steel buildings—if you're looking for low-cost, durable storage, well-protected from fire, lightning, rain and wind. You'll see why thousands of farmers say, "You get more for your money when you build with steel."

SEND THE COUPON FOR FURTHER INFORMATION

Agricultural Extension Bureau, United States Steel Company
Room 2804H, 525 William Penn Place, Pittsburgh 30, Pa.

Please send me free literature about steel farm buildings. Building will be used for .....

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Approximate size or capacity .....
Send information to:

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Address ..... Town .....

County ..... State .....

United States Steel Company is a steel producer, not a steel building fabricator. Your request, therefore, will be sent to building manufacturers who fabricate steel buildings for farm use.

U·S·S Galvanized Steel for Farm Buildings

You get more for your money when you build with Steel

UNITED STATES STEEL COMPANY, PITTSBURGH

AMERICAN STEEL & WIRE DIVISION, CLEVELAND · COLUMBIA-GENEVA STEEL DIVISION, SAN FRANCISCO

TENNESSEE COAL & IRON DIVISION, FAIRFIELD, ALA. · UNITED STATES STEEL EXPORT COMPANY, NEW YORK

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UNITED STATES STEEL

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You're always a hero in your dog's eyes. Surely his love and devotion deserve the safe, sure protection of Sergeant's Dog Care Products. There's one for nearly every need! Fleas, for instance, are killed fast when you bathe your dog with SKIP-FLEA Soap. And SKIP-FLEA Powder used regularly between baths *keeps* fleas away. Both are easy and safe to use. Like the products for ear troubles, worms, skin irritation, ticks! All veterinarian-tested. Relied on for 77 years. **FREE:** A valuable manual of expert advice on dog feeding, training, care — Sergeant's Dog Book. At drug or pet counters, or write Sergeant's, Dept. K-13, Richmond 20, Va.

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3 to 5 year healthy selected trees, 6" to 14" tall. 5 each of: Colorado Blue Spruce, Scotch Pine, Red Pine, Norway Spruce, Canadian Hemlock. Postpaid at planting time. For Fall Planting List write Box 23-I.

MUSSER FORESTS, Inc. Indiana, Pa.

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A powerful, penetrating antiseptic for stubborn hoof conditions, fungus infections. Easy to apply —pour it on. 12 oz. bottle —$1.00 at your dealer's, or by mail postpaid.

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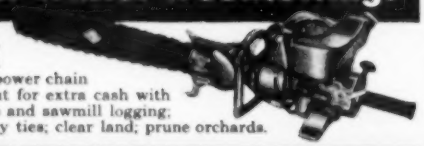
Get Ready For Winter Woodcutting!



Cut more wood this winter with a TITAN – the fastest cutting, easiest operating power chain saw you'll ever handle. Cut for extra cash with TITAN—fell trees for pulp and sawmill logging; cut firewood, posts, railway ties; clear land; prune orchards.

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TITAN has power to spare to make any woodcutting job easy. Lightweight—motor weighs only 30 lbs. Versatile—one and two-man use; 18" to 60" blade bars or 19" bow. Efficient—swivels to cut from any angle; automatic clutch; self-winding starter; dustproof, waterproof magneto; grouped controls.

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DEALER INQUIRIES INVITED

Veterinary

Chilling cut sow's milk flow

Recently we saw a big sow which farrowed a nice litter but was giving little or no milk. There are several possible causes, but in this particular case it was due to chilling brought on by a combination of cold, stormy weather and a tumbledown hog house. Patching the roof, closing up cracks, providing dry bedding, and installing a heat lamp in the pen soon brought the sow back into normal milk production.

Hoofs needed trimming

Not so long ago we were asked to look at a cow suspected of having foot rot. The animal was severely lame and spent a great deal of time lying down. An examination showed the symptoms were due to hoofs which had curled over and back under the foot along the edges. They thus pressed into the sensitive tissues of the hoof. A foot-trimming job was the only treatment needed to remedy the cow's lameness.

Preventing "overeating disease"

Every year about this time, we hear of lambs which died suddenly after being turned into stubble fields or brought into feedlots. In the majority of the cases, the trouble is due to so-called "overeating disease," caused by eating large amounts of grain to which the animals weren't accustomed.

This disease can be prevented largely by vaccinating with a bacterin a few days before grain is made available. Losses also can be reduced by good management practices including separating lambs according to size, gradual increase of the grain allowance, providing plenty of fresh, clean water, and furnishing adequate shelter.

It was bad teeth

The other day we saw a calf with a badly swollen jaw. The owner thought it might be due to diphtheria, a bad bruise, or an abscess, with lumpy jaw as an outside possibility. None of these causes was involved, as an examination showed that two of the back teeth were to blame. They had simply grown too long on their outside edges and had gradually cut quite a gash in the lining of the cheek. This had caused inflammation and secondary infection resulting in a swelling of the jaw. The calf recovered quickly after the teeth were properly leveled off with a dental rasp.

Read that label!

Recently soybean oil meal has been reported killing cattle in Iowa, North Dakota, Mississippi, and Minnesota. The trouble is due to the use of poisonous trichloroethylene for extraction of oil from the beans. Enough of this compound remains in the meal so that it often

kills cattle which get it over a period of time. When oil is extracted by pressure, or the use of harmless solvents, the meal is nonpoisonous. It is believed that all the available dangerous meal has been labeled as unsafe for feeding to cattle. However, if you're not sure of a batch, check with your feed dealer. At the present time such soybean meal also must be considered as possibly dangerous for sheep and other farm animals.

Look out for old paint

The loss of a cow from paint poisoning frequently occurs and reminds us that certain kinds of old paint are as dangerous as the fresh, new kind. In this connection we think of several cattle which sickened shortly after being used to restock an abandoned farm. The buildings were badly weathered. Flakes of peeling paint were eventually discovered as the cause of trouble. The paint contained lead, and the fragments were picked off the ground by the animals. Cattle seem to have a special taste for lead and will go to extreme lengths to eat or lick lead paint.

What's the trouble here?

This yearling (see picture below) was first noticed with a watery discharge from an eye. At first it didn't seem very serious. However, within a few days the condition became much worse, the lids swelling and the entire eyeball becoming milky white in color. Sunlight was evidently painful, for the eye was kept closed most of the time and the animal preferred to stand in a dark shed. Such symptoms can be caused by objects in the eye, injuries of the eyeball, pinkeye, and cancer of the eye. Can you name the trouble?

In this case it happened to be pinkeye, a highly contagious disease. The means of spreading isn't definitely known, but the disease probably is carried by flies which alternately feed on discharges from infected and healthy eyes.

Separate infected animals from the rest of the herd and keep in dark quarters to prevent spreading the disease to other animals. Treatment consists of sulfa powders blown directly into affected eyes or frequent washing of the eyes with mild disinfectants such as boric-acid solutions. Keep newly purchased cattle isolated for 30 days and watch them closely for suspicious symptoms.

Photograph: Bailey

What caused swollen eye, watery discharge?

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New CONVERTIBLE JET PUMP Water System

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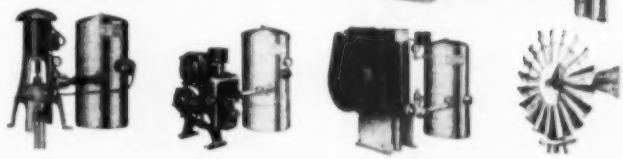

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For suction lift of 22 feet or less. ⅙, ¼, & ½ hp motors for capacities of 250, 350, and 500 gph.

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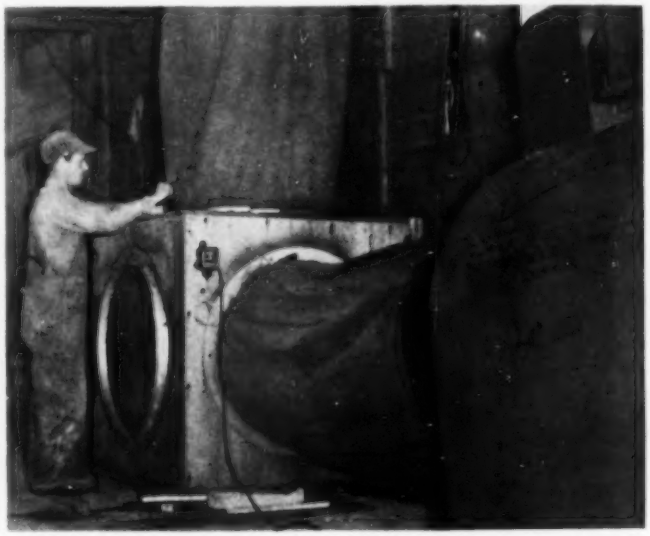
Chemical frost for corn

The University of Illinois Agronomy Department had favorable results applying chemical frost to corn to speed drying last fall, according to G. S. Cooper. Best results came with corn in late dent stage. This corn showed no decrease in yield and no change in quality. But moisture dropped from 33 to 16.5 percent within 5 to 10 days.

When chemical frost was applied to corn in the milk stage, yields often went down 20 percent. In the early dent stage, yield was cut about 12 percent.

Best results came from a defoliant called X-5. But agronomists say moisture may not decrease so much if humidity stays high. Cost ranged from $2 to $3.50 per acre. There is no danger of any toxic effects on livestock.

Corn treated early had an increase in protein content. In the milk stage, protein content was increased 2 percent and oil content dropped 1 percent. Corn in early dent stage increased 1 percent in protein and ½ of 1 percent in oil content. Corn in late dent stage had no changes in either protein or oil.



Temperature-control box makes possible multiple use of dryer. Leth is shown drying soft corn in an overhead bin. Can dry three loads of chopped hay at once

Mass drying with

plywood control box

When Erling Leth, Dodge County, Minnesota, has two or three loads of chopped hay to dry at a time, he just places his plywood temperature-control box between the dryer and wagons. The unit also can be used to dry small grain or soft corn as shown above.

The 4'x4' control box has five circular openings, large enough to permit fastening a canvas duct to a ring. The dryer is attached to one of the openings, leaving the other four to be attached to wagons or a crib with canvas ducts. If only one opening is needed, the other three are closed with plywood discs.

When drying hay, Leth takes his control box and portable drying unit outside. The top is closed and canvas ducts are fastened to the openings on the three open sides. Wagon boxes equipped with special air tunnels are filled with chopped hay and pulled into the yard. The canvas ducts are attached to the air tunnels. Either one, two, or three loads can be dried at the same time.—*Harold Severson, Minnesota.*

AAA reports over 10 million breakdowns caused by battery trouble in one year

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50 YEARS AND 100 MILLION BATTERIES HAVE PROVED WILLARD THE WORLD'S MOST DEPENDABLE BATTERY

Revive your furniture with

Ready-made slipcovers

By Carol Calvin

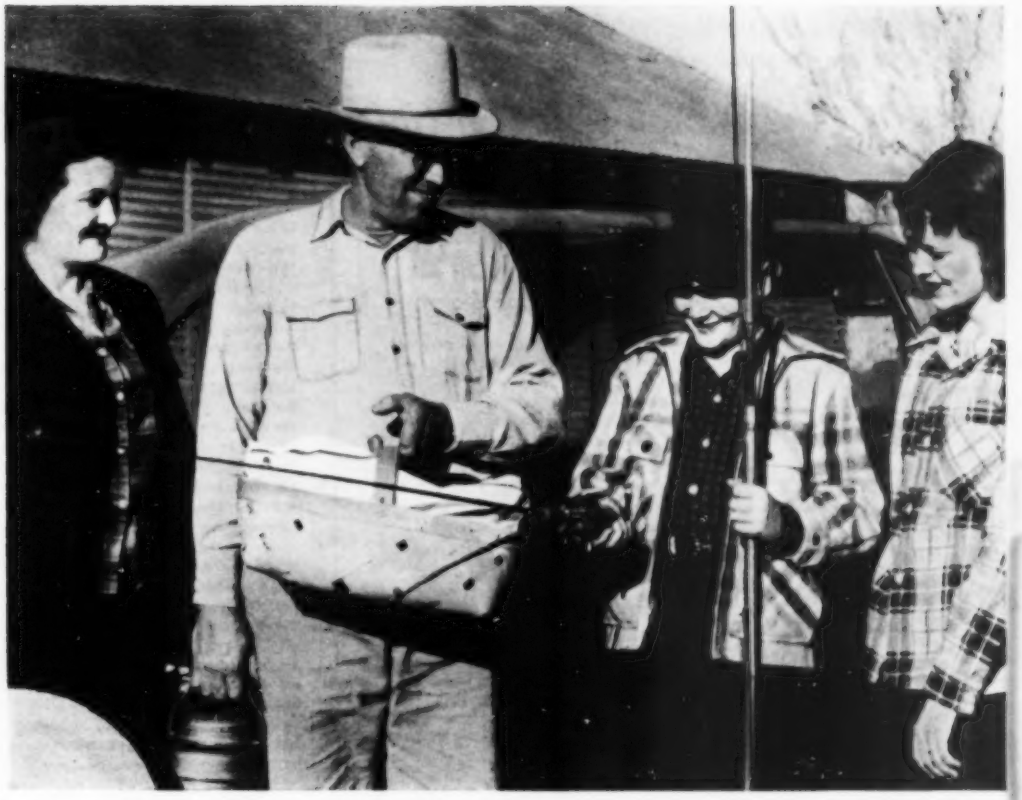
New fabrics, colorful designs, and excellent tailoring are all combined in today's ready-made covers. They will put new sparkle in your furniture

Ready-made slipcovers are made in all styles shown below. Check your chair with them

What a new hat does for your morale, new slipcovers will do for your room! There's nothing quite so rewarding as the decorating sleight of hand possible with slipcovers. Nothing is quite so much fun as seeing a dowdy, nondescript piece of furniture emerge—under your own hand—into a smart and decorative asset to your home. This slipcover magic can be wrought on any piece of furniture, doing one of two things: It can transform a mongrel sofa or other old furniture. Or, it can protect new upholstery during the hot, steamy summer months, extending the life of your new pieces.

To help you achieve this transformation, ready-made slipcovers are being offered in smart new styles. They're a big help to those of you who don't have time to sew. Fabrics of fine quality and a sureness of fit are being offered for the first time. The prices, too, fit into a comfortable range, comparing favorably with those of covers you could make yourself!

The manufacturers of ready-made slipcovers have made an intensive study of the most popular furniture styles—not only current fashion trends but those dating back many years. This has made selecting covers to *fit* your furniture an easy task. The drawings at the left are examples of the various styles of furniture for which slipcovers are being manufactured. If your particular chair or sofa is hard to fit, per- [*Turn to page 144*



"WE 'PLAY HOOKEY' AT HARVEST TIME!"

says Mrs. J. J. Hall of Grapevine, Texas

"We all pitch in during the strenuous days of culling and packing the vegetable crop," Mary Ruth Hall explains. "That way we get it off to market in jig time and can go on a fishing trip to celebrate."

In spite of her big share of the harvesting work, washing gritty produce and handling rough crates and baskets, Mrs. Hall's hands are prettily soft and smooth. "Thanks to *regular* use of Jergens Lotion," says Mary.

"I help the youngsters with their pets — spend nearly as much time outdoors as the children do. Grubby chores and our dry climate make Jergens a *must*.

"And Jessie Lou helps me at canning season. She's learned, too, how important it is to smooth on soothing Jergens after having her hands in water.

"Last thing at night we smooth on Jergens again. Fragrant, pure white Jergens softens hands, arms and elbows—and is a grand all-over beauty treatment too!"

Jergens is effective because it doesn't just coat the skin. Jergens *penetrates* the upper layer and gives it softening moisture. 10¢ to $1.00, plus tax.

More women use **JERGENS LOTION** than any other hand care in the world!

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Magic Chef

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Turn that tired old stove out to pasture and rope yourself a purty-as-a-western-sunset *Magic Chef*. The new back panel gleams golden like a hand-rubbed nugget. Automatic controls, easy-to-clean features make it the helpin'est chow hand a gal ever had! Look over the herd: you'll pick *Magic Chef*, the best brand on any range.

All Magic Chef gas ranges operate on city, "Pyrofax" or other bottled and tank gases.

Magic Chef INC., ST. LOUIS 10, MO

Ready-made slipcovers

From page 142

haps you can find a cover of similar style made with elasticized material that will conform to the shape of your piece.

Before you buy, be sure to check your furniture carefully. Note such things as T-cushions, cushions attached to the seat of the chair, and wing backs. It is wise to take along these measurements; width of the chair back and width and length of the arms. This will insure your getting the proper style and best fit.

For the most part, the fabrics used in today's ready-made slipcovers can be lumped into two categories—knit weaves and cretonne materials. Knit fabrics have a stretchy quality to give a snug fit, the stretch being controlled in most cases by the use of elasticized yarns. The weave is quite different than that we usually associate with knits. It resembles twill material and gives a pleasing texture. Cretonne is a heavy cotton material with long-wearing qualities. A cretonne slipcover usually is fitted with zippers or snaps so that it molds itself to the furniture with little wrinkling. Cretonne comes in plain colors or print patterns.

In buying a slipcover, it's wise to check certain things. Ask the clerk if the material is preshrunk—meaning that the shrinkage has been reduced to 3 percent. It is best to buy only those covers that have had this treatment. Find out if the cover should be washed or dry-cleaned and how it is to be ironed. Inquire if the material is colorfast. Have the clerk demonstrate just how the cover is to be put on the chair. All good covers are easy to manipulate and will have secure fastenings. Buy those with neat tailoring.

Just as some dresses need a bit of alteration, so might your slipcover. The older a piece of furniture, the more the padding will have become flattened out, making alteration necessary.

The most attractive slipcovers are those with a pattern in proportion to the size of the chair or sofa. You will want to select small print for a small chair, leaving the overscaled patterns for the large chair or sofa. Plain colors, too, are a good choice.

With these facts in mind and the wealth of attractive, serviceable slipcovers available in your stores, your rooms can be redecorated with little effort.

A smart plaid adds a modern note of color and pattern to an old sofa bed. Heavy cotton twill is hard-wearing, washable. END

You can freeze eggs

Egg yolks, egg whites, and whole eggs have a spot in your freezer

How to prepare for freezing

Whole eggs. Don't misunderstand. You can't freeze eggs *in* the shell. But you can freeze whole eggs that have been removed from the shell and mixed together.

First, break the eggs from their shells. Then, mix the yolks and whites together with a fork, as thoroughly as you can without beating air into the eggs.

When the whites and yolks are well blended, add to the mixture 1 tablespoon of sugar, light corn syrup, honey, or 1 teaspoon salt, for each 2 cups of eggs.

Egg whites. Simply separate your eggs, and the whites are ready for the freezer.

Egg yolks. These will require the addition of a sweetening or salt to keep them from getting thick in the freezer. After you have separated the eggs, mix the yolks together. Don't beat them. Add 1 tablespoon of sugar, light corn syrup, or honey to each 2 cups of yolk. Or, add 1 teaspoon of salt to each 2 cups of yolk.

How to package for freezing

One good idea is to package just enough eggs in each jar or carton to use in a certain recipe. Enough egg whites to make an angel-food cake. Enough egg yolks for a custard. Here's an equivalent table you'll find helpful.

Three tablespoons whole egg are equal to 1 whole egg.

One tablespoon egg yolk is equal to 1 egg yolk.

Two tablespoons egg white are equal to 1 egg white.

Mark each package with the amount of egg in the package, and note whether salt or a sweetening has been added to the yolks or the whole eggs. Then when you're ready to use the eggs in a recipe, you can adjust the recipe to take the sweetening or salt into account.

How to thaw eggs

Whole eggs, egg yolks, or egg whites must be thawed before using. Let them thaw slowly in the refrigerator, or a little more quickly at room temperature. If time is really at stake, and if your eggs are packed in a watertight container, thaw under running water.

How to use frozen eggs

Any product that is good with fresh eggs is just as good with frozen eggs. Salted egg yolks make good mayonnaise, and sweetened yolks are useful in baking and for soft custards. Whole eggs with salt are good to scramble, while whole eggs with a sweetening make excellent custards.

Dollar for Dollar you can't do better than install one or more

NO MATTER what kind of farm you operate, having *plenty* of hot HOT WATER always on tap is a sound, profit-making investment. It's a "must" for dairymen. It can help increase egg production greatly. It helps cut farrowing losses, bring young pigs to market much sooner. In the house, it has 1001 family and domestic uses—all important, as any farm wife can tell you! For FREE facts, without obligation, mail coupon TODAY.

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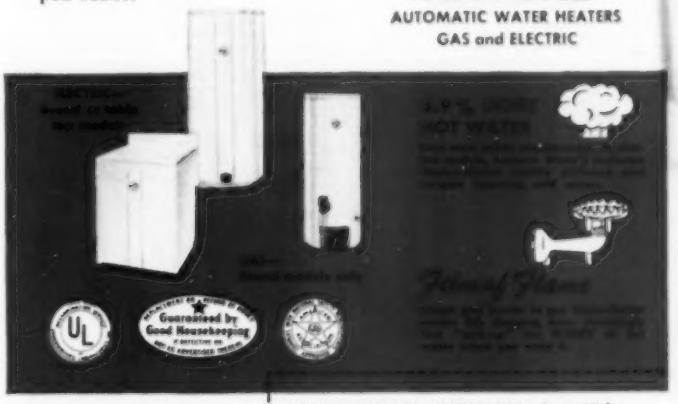

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Cush-N-Bilt **WORK SHOES**

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Keeps your tractor rolling and easy to steer in muddy fields. Completely adjustable . . . ruggedly built. Thousands of satisfied users. WRITE:

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CONSULT YOUR
VETERINARIAN

His skill and experience cost little for proper vaccination and added safety.

This message sponsored by ASSOCIATED SERUM PRODUCERS, INC.

Livestock

Shoot antibiotic in ear

Additional growth rates in suckling pigs can be obtained by giving antibiotic to young pigs in a pellet form, according to recent experiments at the Arkansas Experiment Station. The pellet is implanted under the skin at the base of the ear for slow but direct absorption. Results show that a single 1,000-unit bacitracin (the antibiotic used in the experiment) pellet produced 11.3 percent increase in the weight of pigs weaned at 56 days of age.

The pellet was given to the pigs at 2 to 5 days of age. This method provides a means of obtaining the growth-stimulating effect of bacitracin without effecting any other changes in the usual method of raising pigs.

Sheep clean up cornfields

Sheep have found an important place on the John Franklin corn-hog farm, Benton County, Iowa. Not only are the sheep handy in the fall to clean up the cornfields, but they are pushing the hogs as top moneymakers.

Franklin buys around 200 white-faced Western feeder lambs in September, sells them in February. As soon as he gets them, they are turned into the cornfields to clean up some of the weeds and eat the lower leaves on the stalks before the corn is husked. After the corn is husked, they are turned back into the field.

In November, the feeder lambs are gradually shifted over to a heavy grain ration, taking 2 to 3 weeks. While on a grain ration, each lamb gets 2½ pounds of ground corncob meal per day plus 1 pound of protein supplement for each 10

pounds of corncob meal. The lambs also get all the red-clover hay they will eat.

The lambs are sold at about the 100-pound mark. Franklin keeps them on feed until about 95 percent of them will grade "Good."

Best gain on corn silage

Beef cattle make their highest weight gains at the lowest cost when fed corn silage as the main ration, says Dr. A. L. Moxon, animal science nutritionist at the Ohio Experiment Station. A corn-silage ration costs $5 less per 100 pounds of beef gain than corn-and-cob meal. At the same time, corn silage produces a

high rate of Good to Choice carcasses.

Cattle raised on hay silage required .24 of an acre per 100 pounds of gain. Only .17 of an acre brought the same results with corn silage. Corn-and-cob meal rations produced the highest average daily gain and the choicest carcasses, but the cost was above the others.

A fair compromise, Doctor Moxon believes, is to feed corn as silage where the crop can be raised economically. If farmers feed hay silage, they can step up gains, dressing percentage, and carcass grade by using supplements of corn-and-cob meal.

Sows need iodine

Getting enough iodine in the ration of brood sows is important if you want to help keep them from farrowing dead or weak pigs. When one Illinois swine producer lost 50 litters of pigs, he asked University of Illinois veterinarians to investigate. The examination showed that the losses might have been caused by an iodine deficiency. The rest of the farmer's sows were supplied with iodine and the losses were checked.

Sows can be provided with iodine by giving them stabilized iodized salt. Or, veterinarians can supply a medicinal iodine product to be mixed with the sows' feed.

Feeding antibiotics to beef calves

There is no particular advantage from continued feeding or administration of aureomycin to calves over 2 to 3 months of age, according to J. R. Ferguson of the Cornell Animal Husbandry Department. Four experiments were run using calves from the Cornell beef herd. In each experiment the calves were paired according to age, weight, sex, and breed. One calf from each pair was randomly selected for the treatment group and its mate was placed in the control group.

Daily administration of aureomycin to calves born in the spring of 1951 reduced the incidence of scours and resulted in a greater daily gain for the first 2 months of life. However, the daily gain from birth to weaning was no different for the two groups. These experiments indicate that aureomycin may be effective in decreasing the incidence of scours in young calves, but does not increase the rate of gain above what we would expect from healthy calves.

Shropshires judged on merit

Ohio is well known for its in-and-out-of-fleece show for Merino sheep at the state fair. Now Shropshire breeders are following suit. Their first show will be staged at the 1952 state fair.

The show aims to combine individual excellence with the ability of the ewe to transmit this trait to offspring. Placings will depend on the animal rather than skill in blocking and trimming, as the lambs also will be shown out of fleece.

Each ewe must be nominated before lambing to make the offspring eligible to show. There will be classes for both single and twin lambs. The ewes must be shorn within 15 days before the show.

Half of the basis for judging appear-

[*Turn to page 148*

"Whistling" fence stays tight for more than 40 years

COLONEL D. M. VANCE of Monmouth, Ill., owns a 320-acre farm that has been in the family since the "Forty-niners" were heading west in search of gold.

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THE "BEST" MILKER

Livestock

From page 147

ance will be in the ring and half on the adjusted 120-day weight of the lamb. It will be impossible to put up a lamb blocked to look bigger than the scales show. One-half pound per day adjustment will be allowed from the 120-day age, not to exceed 15 days.

This is a step in the direction of making the country's livestock shows reflect performance rather than looks. An Ohio county fair also will follow suit this fall. All breeding classes in cattle and hogs will be eliminated at the Logan County Fair. Fat-stock classes will take their places and prizes will be upped to encourage competition.—*D. G., Ohio.*

Start lambs on bulky ration

Lambs going on feed should be started on a bulky ration of oats and bran, says Donald M. Kniffen, Animal Husbandry Department, Rutgers University. Too much feed at the beginning is likely to cause indigestion or even death.

At first, feed oats and bran at the rate of a half pint to a pint per day for each animal. Increase grain gradually so that at the end of 4 or 5 weeks each lamb is eating a pound to a pound and a quarter of grain per day.

Corn can be substituted gradually for the oats and bran so that by the time the lambs are on full feed their ration consists of 6 parts corn and 4 parts oats. If a high-quality legume hay is fed, no other protein is needed.

Worm lambs before placing on feed. Clipping may improve appetites if protection from cold winds and rain is available for the flock.

Protein savers!

Vitamin B_{12} and antibiotics can replace some protein in a pig ration, according to animal feeding specialists at the University of Wisconsin. Experiments showed that pigs on a medium protein ration, supplemented with aureomycin and vitamin B_{12}, grew as well as or better than pigs on a high protein ration.

But antibiotics can't replace all the protein, the specialists warn. Pigs on low protein rations with the antibiotics didn't do as well as pigs on a medium protein ration without antibiotics.

Three different levels of protein were used at the start of the test—21 percent, 17 percent, and 12.6 percent. After the pigs reached 125 pounds, the protein was lowered in each ration, to 15 percent, 11.5 percent, and 9.8 percent. The pigs were fed these rations until they weighed 213 pounds. The addition of these supplements allowed good pig growth when the protein level of the ration was reduced about 2 percent. However, a greater reduction resulted in poor growth even with the addition of antibiotics and B_{12}.

This research shows that aureomycin and B_{12} are protein savers. You don't have to mix so much protein in a ration if you supplement it with antibiotics.

Dairy

Gestation periods vary

Standard gestation period for all dairy breeds has been considered as 283 days. Gestation tables have been calculated on this basis even though it has been known for a long time that gestation periods vary with the different breeds.

Guernseys will carry their calves about 5 days longer than Holsteins or Ayrshires, and Brown Swiss will carry theirs about 12 days longer than Holsteins or Ayrshires. These differences, says R. W. Spaulding of the Cornell Animal Husbandry Department, are consistent enough that dairymen should consider them in calculating freshening dates.

About 90 percent of all births will occur 8 days before or after the calculated calving date. If a cow freshens more than 2 weeks before her calculated freshening date with a fully developed calf, it should be viewed with suspicion and her record studied to see if she could possibly be freshening to a previous service. The same holds true if she runs over more than 14 days. Cows freshening with twin calves will normally have a gestation period 8 to 10 days shorter than with single births.

From the study of several thousand gestation periods, it appears that these are good averages for each breed.

Breed	Average gestation period	Correction to standard 283-day gestation table
Holsteins	279 days	−4 days
Ayrshires	279 days	−4 days
Jerseys	280 days	−3 days
Guernseys	284 days	+1 day
Brown Swiss	291 days	+8 days

Clipping reduces bacteria count

If you're one of the rapidly growing number of dairymen who are sold on the importance of wiping the udders of your milk cows before milking—but aren't sold on the idea of clipping—these figures may convince you to do both.

Members of the veterinary department of Michigan State College made an actual test of the effect of both procedures in reducing the bacteria count in milk. Tests were conducted on a herd of 80 mastitis-free cows. When teats and udders of cows were wiped with a chlorine solution, but not clipped, the number of bacteria in a cubic centimeter of milk was 6,800.

Other cows were given a clipping job on the udders and rear quarters. These clipped animals were milked without wiping and the number of bacteria was reduced to 5,000. Clipping apparently was more valuable than was wiping, although both are vitally important in lowering bacteria count. And when annoying lice are dispossessed by clipping, the cows give more milk. Clipping also makes spray or powder more efficient in treating cattle for lice.—*W. S., Michigan.*

Newcastle killed calf

The same virus which causes Newcastle disease, a serious poultry problem, also appears capable of spreading to cattle, according to recent veterinary medical research.

Research workers at the Rhode Island Experiment Station report that they have isolated the virus from a 6-months-old calf which apparently died of the infection. It is believed to have contracted the disease from a nearby flock of hens.

Dr. Vance J. Yates, who supervised the study, said diseased flocks of chickens were housed some 50 to 100 feet from the dairy barn. The same attendant took care of both the chickens and the calves.

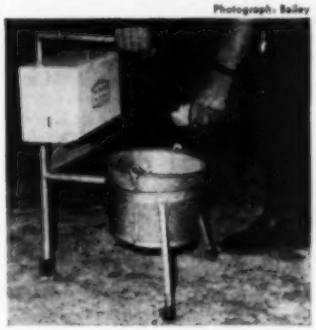
Veterinarians have launched new studies to determine if Newcastle disease can be transmitted naturally to other calves and to discover exactly how this transmission takes place.

Handy udder washer

Everything needed for washing udders on the Harold Nottestad dairy farm, Dane County, Wisconsin, is included in the sturdy, lightweight outfit shown below. The frame consists of short pieces of pipes welded together.

An ordinary paper-towel dispenser is welded to the long pipe just under the

Photograph: Bailey



handle. The metal hoop supports a pail containing a warm chlorine solution. Rubber cups cover the ends of the handle and 3 legs to keep out dirt. A clean towel is dipped in the chlorine for washing an udder; a second clean towel is used for drying. The pail can easily be lifted out of the supporting hoop for cleaning and refilling.—*J. W. B., Wisconsin.*

Heavy feeder of grass silage

Sixty pounds of good grass silage per cow per day! That's one reason 17 Guernsey cows produced a 370-pound butterfat average last year for Melvin Morsch and Ambrose Stephens, De Kalb County, Illinois. They got this production without feeding protein supplement.

They fed a corn-oats-bran mixture

[*Turn to page 150*

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Dairy

From page 149

costing $3 per 100 pounds, along with a little hay. The cows were fed 20 pounds of silage with some grain before the morning milking, 20 pounds after milking, and 20 pounds with grain before the evening milking. "This kept the cows in excellent condition," says Stephens. The cattle were as loose as if they were on pasture, but not too extreme.

From 5 years' experience, Morsch recommends cutting the grass early and wilting it. Success is due largely to putting up silage at the right moisture content. The alfalfa-brome mixture is cut before the alfalfa starts to bloom. It is wilted an hour or so on a good drying day and run through a field chopper, set to cut as fine as possible. Morsch strongly recommends wilting. One year he made silage with too much moisture, causing excessive seepage.

Killing lice on cattle

A good remedy for killing all kinds of lice on dairy cattle is derris powder containing ½ to 2 percent of rotenone, according to C. S. Rhodes, University of Illinois dairyman. Dust the cattle 3 times at 2-week intervals to destroy young lice which may hatch after the first dusting. Watch dairy animals closely for signs of lice during the winter.—*R. V. C., Illinois.*

Foot bandage from inner tube

An old inner tube is used by Craig Beane, Jefferson County, Wisconsin, to protect cattle with sore feet or foot rot. The foot is first cleaned and properly trimmed. Then a suitable remedy is applied and covered with cotton held in place by gauze. A short section of inner tube has four or five hog rings set in one end, which act like belt loops for a length of binder twine.

One end is drawn up over the foot and the twine tied fairly tight around the leg above the fetlock. The other end is folded over from one side, brought over the bottom of the foot, and up the opposite side of the leg. More hog rings are then used to fasten the edges of the folded-over end. This bandage will stay on the foot almost indefinitely, making it easier for the animal to walk, and keeping infected areas clean and dry.—*J. B., Wisconsin.*

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To make a bag 14 inches high you will need ½ yard of 39-inch material. Cut a strip 15x28 inches to form the sides of the bag, another strip 3¾x11½ inches for the handle, and a 9-inch circle for the base of the bag. This circle will measure 27 inches around. A round plastic bracelet is needed for the closing.

With the 15x28-inch piece of material, make a flat-fell seam so that the piece forms a cylinder 27 inches around. (To make a flat-fell seam: Baste seam on the right side and stitch. Trim away one edge to within ¼ inch of the seam line, turn other edge under ⅛ inch, fold this over first edge, and stitch.) Turn the bag inside out and stitch one edge to the bottom circle. For a neat bag, bind this seam with bias tape. Turn in the unfinished top of the bag about ½ inch and hem.

Hem each end of the handle strip, along 3¾-inch width, and fold the strip to a width of 1¼ inches. Stitch down each side of the handle, about ¼ inch from each edge. Place the handle over the flat-fell seam and stitch to the bag ½ inch from the bottom. Slip the bracelet over the handle and stitch the other end 3½ inches from the top of the bag. The bracelet slides to the top of the handle and slips over the open end for a secure closing.

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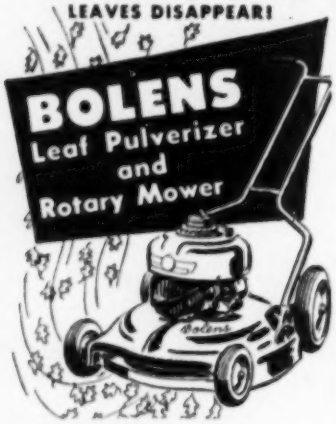

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September

Poultry pointers

Leghorns make good broilers. The low cost of Leghorn chicks makes them profitable as broilers, says R. W. Baker of the Cornell Poultry Department. Leghorn broilers are in demand when they weigh about 2½ pounds. They should be dressed on the farm and sold to hotels and restaurants.

Every year in New York State alone, at least 5 million Leghorn cockerel chicks are gassed or drowned. Frequently Leghorn cockerels can be purchased for a few cents. The saving of 13 to 15 cents per chick is a good profit.

Leghorn cockerels grow extremely fast in early life. Not too much is known about their feed efficiency. Dr. H. J. Almquist of The Grange Company, Modesto, California, has completed an experiment on the comparative feed requirements of meat chickens. He found that Leghorn cockerels were as efficient on feed as any other breed or cross until they weighed 2 pounds. After 2 pounds their efficiency became increasingly poorer.

Doctor Almquist states that the Leghorns he used were from a fairly large-sized strain. He points out that cockerels from a smaller strain probably wouldn't make as efficient gains.

Baker doesn't imply that Leghorns will ever be Chicken-of-Tomorrow winners. He does believe, however, they have a place in the broiler business. If they are sold at about 9 weeks when they weigh about 2½ pounds, they should be profitable. With Leghorns for broilers, a poultryman should try to get a hotel or restaurant trade because they want the smaller carcasses. It probably will mean dressing the birds on the farm.

Building adapted to bulk feed. When Lewis Dunkle, Chenango County, New York, designed his 60'x150', four-story poultry house, it included provisions for using bulk feed. The new building includes a 20-foot feed room at one end.

Feed is purchased in carload lots and dumped into a hopper outside the building. From here it goes by worm to the bucket elevator and then into any bin desired. Then, just by pulling out a slide, feed goes directly into automatic feeders. Tons of feed can be handled without lifting an ounce. Dunkle uses an all-mash feed.

Cull those profit eaters. Layers in a group of 76 "high-return" poultry farms in Illinois showed an average return above feed cost of $3.26 per hen in 1951. The return above feed cost on 97 "low-return" farms was only 47 cents per hen. That's a 7-to-1 difference. These figures are a summary of 383 poultry-farm records kept in the Illinois Farm Bureau Farm Management Service.

Feed cost per dozen eggs or 1½ pounds of meat produced was 26 cents on the high-return farms, and 33 cents on the low farms. The number of eggs laid per hen averaged 164 for flocks on the low farms, and 199 on the high farms during the year. In addition to laying more eggs, the higher-producing hens each laid 50 eggs during the high egg-price months of October, November, and December. Hens in the low-return flocks laid 38 eggs apiece during those months. Flock size averaged 332 on the high-return farms and 193 on the low farms.

These figures all help to emphasize several important management practices. It pays to start with high-quality chicks, start them early enough to get high egg production while prices are at their seasonal high, and keep a large flock.

Photograph: Schneider

Places waterers over roosts. Wet spots in litter around waterers are no problem for Reuben Quie, Goodhue County, Minnesota. The waterers are placed over the enclosed roosts. Then, if any water is splashed over the sides, it falls in the droppings pit. The automatic waterers are attached to the farm pressure system.

Kills lice and mites with oil. Old crankcase oil is one of the easiest and cheapest means of keeping down lice and mites, says O. E. Rhoeten, Dallas County, Iowa. When he sells the old hens in the fall, the laying house is cleaned and the roosts, nests, and floor get a good going over with crankcase oil. This takes care of his parasite problem for a year.

All-pullet flock more profitable. All-pullet flocks will give you more eggs at lower feed cost than a mixed flock. Sam Ridlen, poultry specialist at the Illinois Experiment Station, says one advantage of an all-pullet flock is that pullets generally lay 20 to 30 percent more eggs during their first year than their second.

With proper management, pullets lay heavily in fall and winter when egg prices are highest. During this time most old hens take a rest and grow new feathers. Death loss also is lower in a pullet flock than in an old-hen flock.

Where is your future coming from?

Hundreds of farmers in every state are assuring better futures for themselves and their families by following Practical Land Use plans. Their cash incomes are being increased substantially. Their crop yields have been doubled and tripled. Feed costs have been reduced. And, equally important, their entire farms have been improved for future generations.

You can probably get results similar to those realized by these farmers, without extra costs or labor. Ask your Red Brand dealer to help you get the facts about a Practical Land Use plan for your farm. It costs nothing to find out about Practical Land Use and it may be the means of assuring a more prosperous and secure future.

It's a family affair—The whole family, in most cases, is interested in the future of the farm. Income from the farm means not only new tools, equipment and buildings; it also means appliances and furnishings for the home. In some cases it means better education. And in others it means assured security for the years ahead. In every case it means better living, for every member. That is why the entire family usually takes an active part in Practical Land Use plans.

Red Brand fence dealers—Red Brand dealers are interested in Practical Land Use because they know that the community benefits when a majority of the farmers are following Practical Land Use plans. Because farmers are more prosperous and the farms being improved, business is better. The schools, churches, hospitals, and public institutions are better able to serve the needs of the community. Just ask your Red Brand dealer to help you get the facts about Practical Land Use.

A new, colorfully illustrated book, **WILLING ACRES**, contains facts about Practical Land Use. It illustrates different plans for the same farm and indicates how much can be produced on each acre while improving the entire farm. It also explains what would happen if you said, "I'd like a Practical Land Use plan for my farm." Ask your Red Brand dealer to show you a copy. If he doesn't have a supply, write us.

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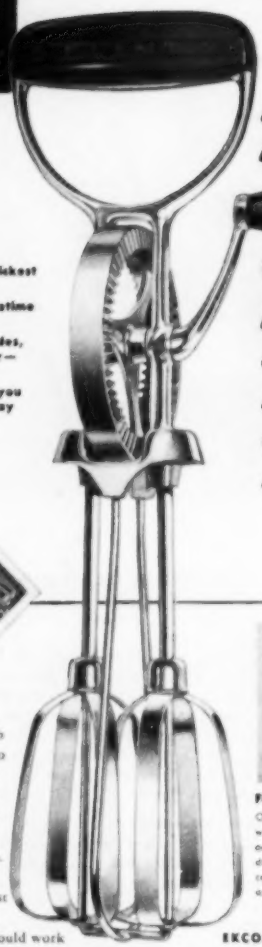

Do any mixing job with the FLINT... and you'll never want any other mixer!

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Make a *tender*

Six steps in turning golden-brown

1 Measure ingredients for your meringue, using 2 tablespoons of sugar for each egg white. For a 9-inch pie, you'll need ¼ teaspoon salt, ½ teaspoon extract, if desired, 3 egg whites, 6 tablespoons sugar. Have egg whites at room temperature

3 Add sugar gradually, 1 tablespoon at a time, to the beaten egg whites. After each addition of sugar, beat the egg whites until the sugar is dissolved. Don't just *fold in* the sugar, or chances are it won't dissolve completely. Beat the mixture well

5 Spread meringue over a warm pie filling, clear to the edge of the crust

6 Bake meringue at 425° for 5 minutes, or at 350° for 12 to 15 minutes. Cool

meringue

out a glossy, fluffy,

meringue for a favorite pie

2 Add the salt and the extract to the fresh egg whites. Beat the egg whites until they are foamy, but not stiff. This is the stage at which whites lose their clear, transparent appearance and become frothy and white. The bubbles are large

4 When all the sugar is beaten into the egg whites, continue beating mixture until the egg whites are stiff and shiny. It is still glossy, smooth, and moist. When you remove the beater from whites, the whites form rounded peaks that tip over

Praises handy, long-keeping Dry Yeast

Young Mother Wins Sweepstakes Award in Cooking Competition

With her young son and daughter, Mrs. Doralee Walsh looks over a scrapbook of her cooking awards. Mrs. Walsh is the first woman ever to win three consecutive sweepstakes at the Minnesota State Fair. Her third sweepstakes ribbon was awarded just last fall, along with several other cooking prizes.

Mrs. Walsh, of St. Paul, Minn., is another of the many prize-winning cooks who praise Fleischmann's Active Dry Yeast. "It's the best ever," she says. "So fast rising . . . and it stays fresh for months so I can always keep a supply on hand."

Folks everywhere find that yeast-raised goodies are rich and delicious . . . nourishing, too! When you bake at home, use yeast. And use the one prize-winning cooks recommend—Fleischmann's Active Dry Yeast. It's so dependable—always gives you good results. This handy Dry Yeast dissolves in a jiffy and really rises fast. Get a supply today.

A Christmas Card with an Artist's Sketch of

Your Own Home

A 10" x 13" sheet of snowy white paper is gate-folded to 5" x 6½". On the cover, in graceful script, is "From our home to yours" in green. Inside, in black, is our artist's sketch of your home, your own name, and the message, "May happiness dwell at your hearthside this Christmas and in the New Year." Matching envelopes.

Send us a photo of your home. Our artist will sketch it and we'll print it on the inside of of this Christmas Card.

Prices, Including Envelopes

25..	$ 5.95	100..	$19.35
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1.

***When mastitis strikes,* infuse a tube of AUREOMYCIN Crystalline Ointment Veterinary *Lederle* into an infected quarter. It's fast-acting, long-acting, highly effective!**

2.

***Before mastitis strikes,* treat cuts and other wounds or injuries of teats or udder with this same antibiotic, by local application and infusion, to guard against mastitis.**

Use AUREOMYCIN Crystalline Ointment *Lederle* in this two-way *protection* and *treatment* method to avoid mastitis losses! Get bigger milk checks!

AUREOMYCIN Ointment remains active in the udder for more than 48 hours. It is a more broadly effective antibiotic than penicillin; it is relatively nonirritating and nontoxic. It is available in a convenient, easy-to-use infusion-tip tube.

In cases of acute septic mastitis, in addition to udder infusion, the injectable form of SULMET* Sodium Sulfamethazine** *Lederle* should be used. Subsequent treatment may be conducted with SULMET Sulfamethazine OBLETS* Veterinary Tablets.

AUREOMYCIN Crystalline Intravenous** Veterinary may be used in the treatment of severe acute septicemia as a highly effective agent against most bacteria.

For maximum efficiency in the use of AUREOMYCIN Ointment for Udder Infusion, as well as best management practices and disease-control procedures for avoidance of reinfection, consult your veterinarian.

Write for folder on AUREOMYCIN Ointment.

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Animal Industry Section

LEDERLE LABORATORIES DIVISION

30 Rockefeller Plaza AMERICAN Cyanamid COMPANY New York 20, N. Y.

Should I grow grass?

From page 30

in range country, the point is never reached, and every acre is most profitably in grass. Soil, climate, markets—all help decide this—but we'll get to them a little later. More practically, your farm can be divided into one of three broad groups for this planning:

A. Those farms with all, or practically all, of the area well suited to the production of cash crops as corn, wheat, beans, rice, cotton, or other equally salable crops.

B. Those farms with two or more distinct areas, one well adapted to cash crops and the other because of character of soil, topography, or some other reason not well suited to major crops.

C. Farms poorly adapted to crop production but suitable for grass or timber.

Farms in Group A. If you operate this kind of farm, you should be slow to change from profitable cash-crop operations to major grass production. Some of these farms are, however, more correctly classed as livestock farms than cash-crop farms. Dairy cattle, beef cows, sheep, or hogs are already well established. Should these farmers grow more grass? The answer may be "Yes," through longer rotations. For example, if the present plan calls for a 3-year corn-small grain-clover rotation, it might be changed to a 4-, 5-, or 6-year rotation. This would be corn, small grain, mixed clover, and grass for 2, 3, or 4 years, then back to corn. This plan is working well on dairy, beef, and sheep farms, where grass silage and hay as well as pasture can be utilized. It calls for careful figuring to make certain that the grass-livestock plan does not cut down net income as compared to the greater acreages of corn, small grain, and beans.

On specialty farms devoted to rice, cotton, or wheat, for example, there is the opportunity to diversify by using some of the land for grass a year or two, then going back to the best cash crop. Undoubtedly there are some soils in the delta areas of the Cotton Belt that will make more money in grass than in cotton.

Again we repeat, be slow. Calculate all costs and net returns carefully before turning top-grade cropland to pasture and hay.

Group B farms should grow grass. Most of them now have "pastures." There seems to be little argument against the plan that calls for turning low-yielding acres into top-grade pasture. This is a first step that always proves profitable.

On these B farms, then, there will be some intermediate areas. They were plowed and cropped in the days when every available tillable acre was used for cash crops. It may pay to square up fields and put some of the steeper edges back into grass. If in the end the farm is about half for crops and half to grass with a short rotation, including at least 1 year of clover or a legume-grass mixture which may be grazed or made into hay or silage,

then a desirable balance may already be well established. *Again, it is important to watch costs and make certain that stock to consume any additional pasture, hay, or silage will be available after these crops are produced.*

Group C farms will, of necessity, be devoted to grass and timber. The first step should be to select those areas to remain in, or go in, timber. If small-timber growth 3 to 5 inches in diameter or greater has already taken over, it is very doubtful if these lands can be profitably cleared under present conditions and with the tools and chemicals now available. This statement has to be made with some reservations, for new brush-clearing plans are developing rapidly and the answer may be at hand before we realize it.

The thing you must watch on these Class C farms is initial costs such as I listed at the beginning of this article. Once you are established with enough livestock, grass production on this type of land can be nearly as high as on the best grainland—which brings us to the final consideration.

I am often asked what, in my opinion, is the most desirable area where a person might go to set up a 100-percent grassland operation.

Before any attempt is made to answer this question, it should be made clear that even though we might have entire agreement on the location of this area, we do now have and will continue to have highly profitable grass-livestock areas outside this area.

Referring to the area east of the Rockies, we would seek this grass center in the following manner.

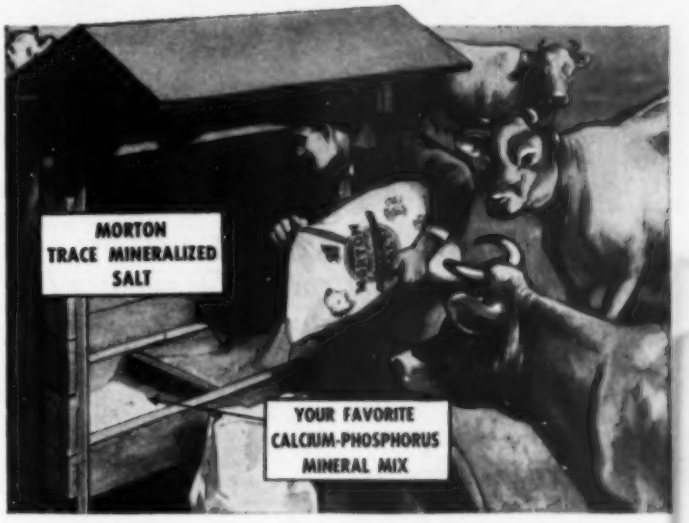
1. The Far North is less desirable because of short growing seasons, long feeding periods, and severe winters—some small areas have too sandy a soil.

2. The Far South has the disadvantages of extreme heat, large areas of sandy soil, greater prevalence of mineral deficiencies, and increased disease hazards—in some areas there is too much rain.

3. The West, while always the great grass region of the United States, cannot come up to areas farther east in pounds

[*Turn to page 158*

Supply all minerals livestock need this LOW-COST WAY



MINERALS account for less than five percent of the body weight of the animal. Their importance, however, is out of all proportion to their actual percentage.

Minerals make up a large part of the bone structure of the animal. They are needed by the vital organs—the heart, liver, kidneys. They are needed for the production of milk, for reproduction, for the digestion and assimilation of feed . . . for all those basic activities that convert feed into nutrients and that, in turn, build nutrients into blood, bone, muscle tissue, milk, wool, and healthy, vigorous young.

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So in the other side of the box put Morton Trace Mineralized Salt. This supplies the sodium and chlorine of salt, as well as adequate amounts of iron, copper, cobalt, manganese, iodine and zinc.

Kept before your livestock all the time, this combination is complete. It has the approval of leading animal nutritionists. It is low in cost.

Your dealer has Morton Free Choice Trace Mineralized Salt in stock. Costing only a few cents more per animal per year than salt alone, it is like a low-cost insurance policy that protects the health and thrift of livestock and your profits. Ask for Morton Trace Mineralized Salt by name. Feed it free choice.

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HOPTO is a heavy-duty unit that contractors are using, yet it's the most profitable piece of farm machinery you can buy! One man and the *HOPTO can do more work in a half* a day than one man can do in a week of twelve hour days! Get the facts and you'll approve the purchase of a *proved* HOPTO!

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BADGER MACHINE COMPANY
WINONA, MINNESOTA • DEPT. 7

Should I grow grass?

From page 157

of meat and milk per acre because of lack of rainfall and poor distribution, and, under present price conditions, too much investment in land per animal unit.

4. In parts of the East, the price of land is above its economic grazing value, and annual costs for fertilizer are too high for competition with the more naturally fertile soils of the Midwest.

5. The black, level lands of Iowa, Illinois, and Indiana reach their values because they are the actual and potential producers of corn and beans. They thus price themselves out of the grassland operations, except in local areas of steep land.

We thus find ourselves in the area roughly outlined by the map at the beginning of this article.

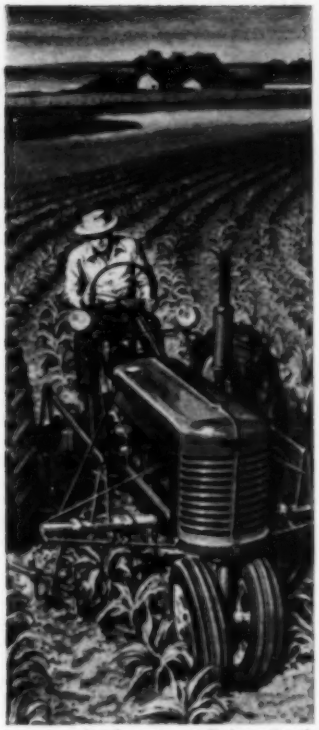
Highly profitable grassland operations are going on outside this area, and the closer one can come to the set of conditions outlined below, the more profitable should be his operation.

Growing period of	180-225 days
Rainfall from April to September	20-24 inches
Average summer rainfall distribution of	3 to 4 inches per month
Gain on a Choice 2-year-old steer in 1 year	500 pounds
Produce this gain from	1 acre of grazing
Use on the average for winter feeding not over	½ ton of hay or its equivalent
Large areas of land priced at	Under $125-150 per acre

In making the final decision as to whether to expand grass on your farm or perhaps purchase a grass farm, *go slow*—use a sharp pencil. Put the proposed system up against your present one. Figure the preliminary expenses closely. Check your credit. Provide for enough livestock. There are great opportunities, and the time to explore them is today. **END**

SUCCESSFUL FARMING

"After this guy made a pass at your sister—then what?"



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Parasites "drafted" for

weevil fight

In 1948, entomologists began a new war on the sweet-clover weevil through the introduction of parasites. The different states cooperated with the Bureau of Entomology and Plant Quarantine, U.S. D.A., in making the necessary releases.

The idea behind the introduction of parasites is to go to the native country of the insect pest and collect its natural parasites or enemies. In the case of the sweet-clover weevil, collectors went to France where they obtained two species of insects which were successful in controlling the weevil. One of these species was a small hymenopterous species, *Microctonus aethiops*, the other a small dark-colored fly, *Campogaster exigua*. Shipments of the parasites are made to the various states by air mail in order to assure good delivery.

Immediately upon arrival of the insects, the entomologists make their releases in areas where the sweet-clover weevil is present. Both species of parasites attack the adult weevil by laying an egg in the weevil's body. Under favorable conditions, the parasite completes its life cycle in a period of a few weeks.

Early indications in North Dakota reveal that both species are becoming established.

The reactions of the weevils to the parasites were interesting. Even though the weevils on this continent had been separated from their parasites for over 24 years (24 generations), they immediately demonstrated fear when exposed to the *M. aethiops* species.

To what extent the recently imported parasites are able to check the weevils remains to be seen. For the present, growers of sweet clover will have to rely upon applied control measures through the use of chemicals, late, shallow tillage, and delayed seeding. All of these are effective in controlling this dark gray snout beetle. Whenever you notice crescent-shaped notches in the leaves of sweet clover, you can be sure the weevil is at work. In severe infestation, complete defoliation is common, causing many seedlings to die.

SUCCESSFUL FARMING

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Order now. Phone or write your local Sinclair Representative.

How to tell when a COW IS

By J. W. Bailey, D. V. M.

Stockmen buying cows want to know whether or not the animals are pregnant. Also, the average owner is interested in knowing whether his home cows are with calf. It may determine whether he keeps on milking a certain animal or dries her off; whether he keeps her or sells her for beef.

Not so long ago we stopped at a place where a certain cow hadn't been coming in heat and the owner thought she needed something to "bring her around." However, investigation showed that the cow was two months pregnant, and that this was the reason why she failed to come in heat. The owner finally remembered that the cow had been bred on a certain day, but it hadn't been recorded on the breeding chart.

Cows often don't follow pattern. Cows are often considered pregnant when they stop coming in heat. This is generally true, but it doesn't pay to take too much for granted, as cows sometimes go for long periods without coming in heat. Last winter a farmer boasted of his good luck in getting all his cows settled with one service and the complete absence of breeding troubles. The bubble burst in the spring, though, when three of his "pregnant" cows started coming in heat at regular intervals.

We mention examination because it's important in such cases. We recall a cow which came into heat after she was six months "along." Pregnant cows aren't supposed to come in heat; however, this one was safely pregnant to the recorded service and delivered at the proper time.

To get around this confusion, there are two practical methods of determining whether a cow is with calf.

"Bumping" the calf. The commonest method consists of "bumping" a cow in the right flank. However, a cow has to be six or seven months "along" before this can be done. A popular technique consists of clenching a fist and placing the doubled-over thumb against the flank. Then drive the thumb into the cow's body with a kicking movement from the upper part of the leg. When a big calf is being carried, it can often be felt or "bumped" by such a procedure.

The calf is usually carried low in the flank, but several different locations may have to be tried before it's decided that a calf can't be felt. Even then, there's a possibility that one can be "bumped" a few hours later, as calves shift considerably, particularly in the latter stages of pregnancy. Accordingly, a calf may lie close against the flank one day and be so deep inside the body the next that it can't

with calf

be located at all. In short, you're sure of pregnancy when a calf can be "bumped," but not sure a cow is open when a calf can't be located.

A sure diagnosis. The most reliable pregnancy diagnosis is made by inserting a hand in the rectum and feeling the reproductive organs through the intestinal walls. A veterinarian is usually needed for such an examination, as a detailed knowledge of body structure is necessary to locate the different parts of the reproductive tract.

This method of pregnancy examination properly begins with lubricating the hand with soap and inserting it in the rectum. Considerable manure may have to be removed before the reproductive organs can be felt. Sometimes the rectum is "ballooned" with air and the walls made so hard that examination is impossible until relaxation occurs.

Pregnancy diagnosis really consists of nothing more than feeling the calf surrounded by fluid in the uterus. Unless twins are being carried, one horn of the uterus is likely to be larger than the other, with the ovary on that side carrying the "yellow body" of pregnancy. The uterine artery of the pregnant horn is also likely to be larger and pulsating more strongly than the one on the other side. Indications of all kinds are subject to change as pregnancy advances.

Experience needed. Mistakes are easily made by beginners, for practice and experience that permits the recognition of widely different conditions are the only things that will qualify anyone to make accurate pregnancy diagnoses through rectal examinations. Some kind of a tumor or an accumulation of pus will enlarge a uterus just the same as a developing calf. Infection of the genital tract may serve to increase the size and pulsation of uterine arteries. A mummified calf or some type of hormonal upset may cause a "yellow body" to persist on an ovary so it's thought to be an indication of pregnancy.

At this time there is no satisfactory way of diagnosing pregnancy in cows through urine tests such as are sometimes used on mares. **END**

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- Box made of heavy gauge rust-resisting steel. Easily cleaned.
- PTO operation permits year-around, all-weather manure spreading.
- Saves time — carries 150 bu. loads — travels and spreads faster.
- Safety designed — all gears, chains and sprockets are covered.
- Beater-spreaders turn on roller bearings.
- Automotive-type wheels with tapered roller bearings for low loading height.
- Cobey Manure Spreaders are also available in 75 bu. and 100 bu. sizes.

THE COBEY CORP. SF-92, Galion, Ohio

RETURN COUPON BELOW FOR COMPLETE INFORMATION

- ☐ Power Driven Spreaders
- ☐ Convertible Farm Wagons
- ☐ Wagon Gear and Boxes
- ☐ Spring Tooth Harrows
- ☐ Hydraulic Lift Discs
- ☐ Disc Harrows
- ☐ Pulverizers
- ☐ Rotary Hoes

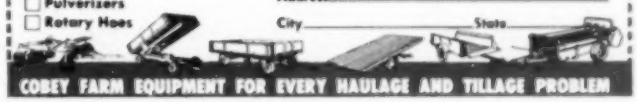
THE COBEY CORP., DEPT. SF-92, GALION, OHIO

Please send literature and dealer's address where I can see Cobey Spreaders and other implements checked.

Name_____

Address_____

City_____ State_____



COBEY FARM EQUIPMENT FOR EVERY HAULAGE AND TILLAGE PROBLEM

For friendly help with your building, furnishing or decorating problems, visit the store nearest you offering **Successful Farming's** home planning service. Stores are listed on page 95.

EARLIER LAYING!

EXTRA EGGS!

Pullets fed Pan-a-min at the Dr. Hess Research Farm produce more eggs *earlier* while prices are high. Up to 14% more eggs are laid when the diet includes Pan-a-min. Pullets getting Pan-a-min eat more feed, and the tonics and minerals help them get more good from it. Try Pan-a-min . . . costs less than 1¢ per bird per month!

Send for free bulletin "How To Get Winter Eggs"

SIX FOR DELOUSING

SIX, a Dr. Hess benzene hexachloride product, gives positive lice control. Apply to roost with handy spout can. Works fast—costs about ½¢ per bird.

Dr. HESS PAN-A-MIN

DR. HESS & CLARK, INC., ASHLAND, OHIO • SCIENTIFIC FARM-ACEUTICALS SINCE 1893

Farmer's Trading Center

Advertisements using illustration or display (large) type, $6.35 per agate line. This classification is open to baby chick, poultry, livestock, pet stock, and schools. Straight classified (no illustration or display type)—20 word minimum—all classifications—80 cents a word. Write Successful Farming, Des Moines 3, Iowa.

LIVESTOCK

Registered and Non-Registered Wisconsin Holstein Calves—for higher production herds. Exceptional offering of choice Wisconsin Holstein Calves. Available in large quantities. Also some Guernsey and Brown Swiss. Vaccinated against shipping fever. Health sheet furnished. Well started—no milk required. Visitors welcome. Write or Telephone J. M. McFarland & Sons, Watertown, Wisconsin.

Guernsey and Holstein Heifer Calves. Good, strong, carefully selected Guernsey or Holstein heifer calves, purebred, not subject to registry, $60 FOB, express car. Older calves higher, according to age. 10 to 35 delivered by truck on approval. Also a few Brown Swiss calves.
H. R. Lobdell, Mukwonago, Wis.

Powdered Phenothiazine: Plain (100.00%). Drench (99.00%): 150 pounds, $92.95. Fifty, $34.95. Twenty-five, $20.49. Ten, $9.49. Five, $4.95. Prepaid. Guaranteed. Attractive prices larger quantities and Phenothiazine-Lead Arsenate Drench. Southside Chemical Company, Petersburg 5, Virginia.

Berkshire hogs increase New Profit. Leading meat-type breed, best foragers, prolific. Write for magazine, literature and list of nearby breeders. American Berkshire Association, 601B West Monroe, Springfield, Illinois.

"How to Break and Train Horses"—A book every farmer and horseman should have. It is free; no obligation. Simply address Beery School of Horsemanship, Dept. 209, Pleasant Hill, Ohio.

Use Hampshire sires for big early maturing market-topping lambs. Free breeders list and information. American Hampshire Sheep Association, 72-B Woodland, Detroit 2, Michigan.

Registered Berkshires and Angus Cattle. Improved type. Farmer's prices. Write for details. Owen Stock Farms, Route 5, Spencer, Indiana.

Blue-Ribbon Holstein heifers from Wisconsin's biggest and oldest dealer. Guaranteed and selected from proven Wisconsin herds—No Stock Yard Culls! Vaccinated for shipping fever. T. B. and Bangs tested. Health sheets and buyer references furnished. Special Offer! Walter Lehmann, Dept. 7, Box 53, Watertown, Wisconsin.

Brahman Cattle—We have 28 head of non registered Brahmans—Bulls and Heifers—14 months old and in various colors at $250.00 each. These have wintered in the north and are really nice. Also registered Brahmans. Willow View Farm, R. 3, Lebanon, Ohio.

Free 114 page Veterinary Guide. Describes 95 farm animal diseases, newest sulfas, penicillin, etc. If no Peters dealer near you, write Peters Serum Laboratories, 815C McGee, Kansas City, Mo. (Peters family, world's first hog serum manufacturers.)

Wisconsin Holstein, Guernsey and Brown Swiss Heifer Calves from High Production Herds. Free literature and prices. Dairyland Cattle Co., Delafield, Wisconsin.

Yorkshire Hogs. Imported English and American breeding. High-winning herd major State Fairs 1948—1951. Circular.
Yalehurst Yorkshire Farm, Peoria, Ill.

Wisconsin Holstein Calves, registered or purebreds. Selected for type and production. Also Guernsey and Brown Swiss. George Piper Farm, Watertown, Wisconsin.

Wisconsin Holstein and Guernsey Heifers and Calves for sale. Delivered on approval. James E. Welch, Mukwonago, Wis. Phone Eagle 778.

Oakland Guernsey Farm, Mukwonago, Wisconsin, offers 20 choice high grade Guernsey heifers bred and open. Best type, and breeding. Tested.

Advertise to a million farm families through Successful Farming.

FILM FINISHING

Dated Prints with the date on the Front Margin visible even when pictures are pasted in album. Magnificent quality—America's most modern laboratory. 6 or 8 exposure roll developed and printed Jumbo size, in pockette album—35c. 12 exposures 45c, 16 exposures 60c. Satisfaction guaranteed or your money refunded. Overnight service. Free mailers. Free coupons. Kleer-Vue Film Service, Box 5400-K Philadelphia 43, Pa.

Two Sets Of "Deckledge" Prints with every eight exposure roll finished—40c. Very finest quality. "Deckledge" reprints 3c each. Jumbo reprints 4c each. Brown Photo Company, 1910-45 Emerson, Minneapolis, Minnesota.

Only 25c for 8 beautiful enlarged prints from your roll or negatives. (Trial Offer). 16-50c. Quick Service. Money-back guarantee. Willard Studios, Box 3535N, Cleveland, Ohio.

Two beautiful prints from each picture on 8 exposure roll 35c. Thirty-one years of satisfied customers. Quick Service. Lens Photos, Dept. C-10, Janesville, Wis.

Eight exposure roll 30c, twelve exposure 40c, jumbo add 10c roll. Reprints 3c, jumbo 4c. La Crosse Film Service, La Crosse, Wisconsin.

Look—16 contact oversize prints, or 8 jumbos in album 35c. Coupon for 3—5x7 enlargements.
Owlphoto Co., Weatherford, Okla.

18 Jumbo Prints from any size roll or negatives 35c, with this ad.
E. Skrudland, Lake Geneva, Wisc.

Beautiful enlargement from each picture on 8 exposure roll 35c. Cut Rate Photos, Dept. K-1, Janesville, Wisconsin.

16 prints or 8 Jumbos from roll or negatives, 25c with this ad. I. Skrudland, Box 486, Daytona Beach, Florida.

New! Convenient! Pocket-Pak Prints—easy to carry or mail. 8 exposure roll Deckledge Prints only 30c; or two prints each (2 Paks) 40c. 12 exposure, 35c. Valuable Coupon. Reprints 3c. Inter-State Photo Service, Box 457-8, Minneapolis, Minn.

Dated One Day Service: Roll 8 (Giant Size) deckle edge in free album—40c; roll 12 exposure 55c—16 exposure 75c free album, free album, deckle edge reprints (Giant Size)—5c.
Camera Snaps, Box B-977, Oshkosh, Wis.

Moen's new equipment, better prints quick as a flash. 8 exposure rolls developed, with Jumbo Genuine Moen-Tone Enamel Prints—40c regular size 35c. Moen Photo Service since 1898, 38 Moen Bldg., La Crosse, Wis.

Two "Everbrite" prints from each negative on 8 exposure film, including coupon for choice of two plain or one colored framed enlargement. 37c. Reprints 3c each. Flash Foto Finishers, Box 1122-R, Minneapolis, Minn.

Fast-Same Day Service! 8 oversized prints in attractive Plastic-Bound Book only 35c; 12-50c; 16-60c. Satisfaction guaranteed. Free Exposure Guide with first order.
PieSure, Box 899-M, Philadelphia 5, Pa.

Only 25c. Your roll developed and 8 finest quality enlarged prints. Pictures plastic bound in beautiful album.* Trial offer: limited time. Daily service. Ball Studio, Dept. 9Z, Box 275, St. Louis, Missouri.

Prompt Service—Finest Quality...Two prints (deckle-edge) from eight exposure roll 35c. Reprints 3c each. For clear sparkling prints (Trial Offer) send to Welch Photo Co., 2418-28 Penn North, Minneapolis, Minnesota.

Business firms—write Successful Farming for details about classified advertising.

POULTRY — CHICKS — DUCKS — EQUIPMENT

Poultry Picking Made Easy! Save time, save work defeathering with Fetherzip and Duxwax poultry waxes. No special equipment required. Birds look better, sell faster. Economical, re-usable. Helps users of rubber-fingered picking machines, too. Write for booklet and guaranteed offer. National Wax Company 1314 W. Division St., Chicago 22, Ill.

Stouffer's Famous Chicks. U.S. Approved. Pullorum Passed. White, Barred Rocks. Hampshire, White Leghorns, Austra-Whites, $13.90. Seconds $6.95. Heavy mixed $10.90. Delaware Hampshire Giants. $14.90. Order today.
Stouffer's Hatchery, Lena, Ill.

Clover Valley Chicks. U. S. Approved-Pullorum Passed. Thousands weekly. All leading breeds. Free Catalog. Clover Valley Hatcheries, Box 39, Ramsey, Indiana.

Rocks, Reds, Hampshires, Wyandottes $7.95, pullets $12.95. Leghorns, Austra-whites, Minorcas, $8.95, pullets $14.95. Heavy Assorted $6.90. Leftovers $4.85. Fryers $2.95 FOB 100%, alive COD. Catalog Free.
Bush Hatchery, Clinton, Missouri.

Raise pheasants on the $100 week plan. Little capital and space can make you independent. Free details. Great Central Game Management System, Columbus 8, Kansas.

White, Brown Leghorns, Austrawhites, Rocks, Reds, Hampshires, Wyandottes $8.90, pullets $13.95, Heavies $6.85, Mixed $5.95, Fryers $2.95. Hi-Grade Chicks, Deepwater, Missouri.

Surplus Chicks $6.85—100 COD. New Hampshires, White Rocks, Barred Rocks & Heavy Assorted. Price at Hatchery.
Surplus Chick Co., Milesburg 17, Pa.

PATENTS

Inventors—If you believe you have an invention, you should find out how to protect it. Send for copy of our Patent Booklet "How to Protect Your Invention" and "Invention Record" form. No obligation. McMorrow, Berman & Davidson, Registered Patent Attorneys, 115-C Victor Building, Washington 1, D. C.

Inventors: Without obligation, write for information explaining the steps you should take to secure a Patent on your invention. John N. Randolph, Registered Patent Attorney, 237 Columbian Bldg., Washington 1, D. C.

Inventors: When you are satisfied that you have invented something of value write me, without obligation, for information as to what steps you should take to secure a Patent. Write Patrick D. Beavers Registered Patent Atty., 950 Columbian Bldg., Washington 1, D. C.

Inventors—Send for Free Patent Information Book and Inventor's Record. Registered Patent Attorney. Associate Examiner, Patent Office 1922-29; Patent Attorney & Advisor, Navy Department 1930-47. Gustave Miller, 928F Warner Building, Washington 4, D. C.

DOGS — PETS

Genuine English Shepherd and Collie pups—guaranteed heeldrivers—(no fooling) year's trial—training instructions—(30,000 satisfied customers) males—females—spayed females—$15.00. (Distemper vaccinated).
Emil Runft, Reinbeck, Iowa.

Sportsmen: 200 Pointers, Setters, Straight Cooners, Combination Hunters, Rabbit and Fox Hounds. Reasonable. List Free.
Ramsey Creek Kennels, Ramsey, Illinois.

Setters and Pointers. Fox, Coon, and Rabbit Hounds, shipped for trial. Catalog 10 cents. Stanley Blake, Mgr. Blue Grass Farm Kennels, Berry, Ky.

Creekside Eng. Shepherd pups $12. Guaranteed heelers, watchdogs, happy guarding the baby. Training instructions. Few older partly trained $25.
Creekside Kennels, Beardsley, Minn.

Genuine English Shepherd pups—(Distemper Vaccinated). Guaranteed Heeldrivers. Year's Trial. Training Instructions. Males, Females, Spayed Females.
Highview Farms, Cedar Falls, Iowa.

Want to buy good collie or shepherd puppies. Dept. G, Box 777, Des Moines, Iowa.

Advertise to a million farm families through Successful Farming.

COONHOUNDS

Hunters—Dogs of the Hunting Breeds. Coon $25.00; Combination $20.00; Semi-Silent $20.00. Squirrel $15.00; Rabbit $15.00. Fox $25.00. 10 Days trial. Write for literature containing terms of sale.
J. N. Ryan Kennel, Murray, Ky.

Hunters, we offer coon, combination hounds, fox, squirrel and rabbit hounds. Trial allowed. Information Free.
Hillside Kennels, Sesser, Illinois.

Hunters: Coonhounds, Combination Hunters, Foxhounds, Rabbithounds; Blacktans, Redbones, Blueticks, Spotted; Trained. Reasonable. Literature free. Trial.
Wildwood Kennels, Herrick 17, Illinois.

Hunting Hounds. Blueticks, Redbones, Blacks, Tans, Spotted. Foxhounds, Coonhounds, Combination Hunters. Reasonable. Trial. Pictures. Beck Hound Kennels, 8-20, Herrick, Illinois.

Coonhounds, Combination Hounds, Foxhounds, Rabbit and Beagle Hounds. A Specialty. Puppies all breeds, price reasonable. Free literature and pictures. Trial. Raccoon Mountain Kennels, Box 268, Albertville, Ala., Dures Thomas, Owner.

Hunters—We offer Coon and Foxhounds, Blueticks, Blacktans, Redbones, Walkers, Beagles, others. Reasonable. Free Literature. Okaw River Kennel, Cowden, Illinois.

Hunting Hounds: Straight Cooners, Combination Hunters, Foxhounds, Rabbithounds, Redbones, Blacktans, Blueticks, Reasonable. Pictures. Literature free.
Echo Valley Kennels, Herrick, Illinois.

Hunting Hounds: Coon and Combination Hounds, Foxhounds and Rabbit hounds. Cheap. Trial. Literature Free.
Dixie Kennels, D4, Herrick, Illinois.

STOCKMAN'S SUPPLIES

Horn Weights, 80c per pair postpaid. Made in 4 sizes—½ lb., 1 lb., 1½ lb., and 2 lb. Tattoo markers $4.75 postpaid, includes set of numbers, bottle of ink, and full directions. We also carry complete line of ear tags, neck chains, veterinary instruments, supplies, serums, remedies; in fact, everything for the stockman. Write for free catalog.
Breeders Supply Co., Council Bluffs, Iowa.

The Farmer's Trading Center is one of the nation's leading mail order sections. Use it to boost your business.

FEATHERS WANTED

Guaranteed top prices and immediate payment for feather shipments. Free tags. Ship to this old reliable firm. Used feathers—send sample for best price. No handling or commission charge. Progress Feather Co., 657 W. Lake St., Chicago, Ill.

Top Price for new goose & duck feathers. Ship parcel post. For old feathers mail sample in ordinary envelope to: Northwestern Feather Co., 212 Scribner, Grand Rapids 4, Mich.

Successful Farming devotes more editorial pages to livestock and poultry material than any other major farm magazine. Write for classified advertising details.

FOR FARMERS

Want To Save Money? Then send for your Free 1952 Farm Catalog. It's loaded with bargains for farm, home, ranch. Save on barb wire, field fence. Paints, roofing, hardware, and hundreds of values. Big Free coupons. Write for Free Catalog. Trading Post, 1800K Burlington, North Kansas City, Mo.

Attention Cream Shippers! Ship us your cream. 57 years of honest, dependable service. Galva Creamery Company, Galva, Illinois, and Kansas City, Missouri, Peterson's Creamery, St. Paul, Minnesota.

Your mail sales grow each time you Go Classified in Successful Farming.

FARMS — REAL ESTATE

Equipt For Income... 4 dairy cows, 7 yearling heifers, 2 calves, Hereford bull, team, riding horse, machinery included with 80-acre Ozark farm! ¼ mile school bus, 2 railroad town; 50 partly-wooded pasture with 4 springs, 50 tillable includes 20 bottom, excellent fencing; good 5-room home, electric lights, well, 30-ft. barn, poultry buildings, nearly new garage; owner disabled, hurry for this, only $7,350, terms, 30-day possession. Big Free Fall catalog many states. United Farm Agency, 2825-SF Main St., Kansas City 8, Mo.

New Strout Catalog Just Out! Farms, Homes, Businesses, 31 States, Coast-to-Coast, bargains galore. Mailed Free. Our 53rd year. World's Largest. Strout Realty, 20 West Ninth St., Kansas City 6, Mo.

Canadian Farm Lands—Improved and Unimproved Lands. Good settlement opportunities on productive soil, reasonably priced. For free information write: Canadian National Railways, Dept. N, Union Station, Winnipeg, Canada.

Farm-Ranch Opportunities. Favorable conditions, Washington, Minnesota, Montana, Idaho, Oregon, North Dakota. Literature, farm descriptions. Specify which state. J. W. Haw, 11 Northern Pacific Ry., St. Paul 1, Minn.

Modern Farm Homes—Prosperous Wisconsin Dairying District—Beautiful Lake Region. $50 Per A. & up! Favorable Terms! Baker AA14, St. Croix Falls, Wis.

Go Classified in Successful Farming. Mail order sales increase with every advertisement. Write for details on how you can increase your sales.

MISCELLANEOUS

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water, pour into toilet. Safe, no poisons. Save digging, pumping costs. Postcard brings free details. Burson Laboratories, Dept. B-23, Chicago 22, Illinois.

"How to Make Money With Simple Cartoons"—A book everyone who likes to draw should have. It is free; no obligation. Simply address Cartoonists' Exchange, Dept. 449, Pleasant Hill, Ohio.

Don't Feed Sparrows!!! Make your own trap and catch thousands. Save costly feed and annoyance. Free details. Roy Vail, Farm Service Co., Box 7921, Chicago 1, Illinois.

Cesspools, Septic tanks, Outdoor toilets-Cleaned-Deodorized. Amazing Product Saves Digging. Details. DigNoMore Company, Dept. 24, 2611 Harriet, Minneapolis 8, Minn.

No. 1 livestock magazine in its field. Successful Farming leads all major farm magazines in editorial pages devoted to livestock.

EMPLOYMENT

Your Personal Lingerie free as bonus—extra cash besides—introducing sensational Curve-Tailored idea to friends. Outfit Free. World's-Star, Dept. F-13, Grand Rapids, Michigan.

Sell finest nylon hosiery Guaranteed against everything, snags, runs, holes. Demonstration kit Free to you with actual sample stocking. American Mills, Dept. 398, Indianapolis.

Make Money Introducing World's cutest children's dresses. Big selection adorable styles. Low prices. Complete display free. Rush name.
Harford, Dept. H-2341, Cincinnati 25, O.

The average value of farm implements and machinery of Successful Farming farms is nearly double the U. S. farm average. Write for classified advertising details.

BUSINESS OPPORTUNITIES

Moneymaking Opportunities. Hundreds to choose from. Read World's Biggest Classified Medium. Free copy. Popular Mechanics Classified, 207 East Ontario, Chicago 11.

OLD GOLD — JEWELRY

Watches Practically Wholesale to wearer Direct. Save up to 60%, on Famous Make watches, diamonds, jewelry, silverware, gifts, home need and other merchandise. Free Catalog. America's Greatest Values. Send name and address to Maryland Distributing Company, Dept. C-42, 501 E. Baltimore Street, Baltimore 2, Maryland.

Highest Cash Paid For Old, Broken Jewelry, Gold Teeth, Watches, Silverware, Diamonds, Spectacles. Free Information. Satisfaction Guaranteed. Rose Smelting Company, 29-D East Madison, Chicago.

DAIRY GOATS

Profit and Health from dairy goats. Monthly magazine tells how. 12-month subscription $1. Dairy Goat Journal, Columbia, C25, Mo.

Did you know Successful Farming has a greater percentage of subscribers living on farms than any other major farm publication? To reach farm families, advertise on these pages.

Farmer's Trading Center

FARM EQUIPMENT

Tools at wholesale. Direct from factory. Full line of top quality, fully guaranteed, chrome, factory-new mechanics hand tools. You save half regular price. Pay easy monthly terms. Write today for free catalog. Mechanics Co-Op, Dept. M, Oakland 8, California.

Protect yourself against power line failure with a Katolight AC generator which will provide AC current at 110-220 volts. Available either with engine drive or for tractor drive.
Katolight, Mankato, Minnesota.

Booms All-Purpose Wagon Unloader. Inexpensive, easily attached to your present wagon. Unloads five tons in seven or fourteen minutes. Free literature.
Booms Silo Co., Harbor Beach, Mich.

New Better-Barns Book. Best ways to build, remodel and equip farm buildings. Please enclose dime for mailing cost.
Louden, Dept. SF-140, Fairfield, Iowa.

Wire Winder. Roll and unroll barbed wire with tractor power and speed. Low cost. Free literature. Midwest Wire, Dept. 18, South St. Paul, Minnesota.

5 Brands Baler Twine; Binder Twine; Rope—Quality Guaranteed. Wanted Dealers, Distributors, Salesmen. Bob Stone—National Twine Distributors, Chariton, Iowa.

Government Surplus 200 ampere 28 volt DC generators. Use for electric arc welding. $33.00. Free information.
Lewis Short, Burrton, Kansas.

Free Crib Plans. Cup and portable elevator catalog. Built right for future needs. Meyer Mfg. Company, Box 60, Morton, Illinois.

No. 1 livestock magazine in its field, Successful Farming leads all major farm magazines in editorial pages devoted to livestock.

RABBITS

A Practical Beginning To Successful Rabbit Raising. 48 Page Illustrated Booklet. Dime. American Rabbit Breeders Association. 40 AR&CBA Bldg., Pittsburgh, Pa.

Steady Earnings With Angora Rabbits. Free illustrated booklet tells how, lists markets, successful raisers. Angoraville, 170 E. Butler, West St. Paul, Minnesota.

Raise Rabbits, Ready Market, food, fur. Beginners Manual 25c, journal year $1.00, sample dime. Standard Rabbit Journal, B-241-5, Milton, Pa.

Earn Up To $400 Monthly raising Angora or New Zealand Rabbits. Plenty markets. Particulars free.
White's Rabbitry, Newark, Ohio.

The average value of farm implements and machinery of Successful Farming farms is nearly double the U. S. farm average. Write for classified advertising details.

SCHOOLS

Be an auctioneer. Learn more, earn more. Term soon. Write for catalog. Missouri Auction School, 3241 Paseo, Kansas City, Mo.

FOR FARM WOMEN

Looking for Bargains? Send for Free money-saving catalog from famous 64-year-old mail order company. Latest New York fashions. Cotton frocks from $1.98; Rayon dresses from $3.49. Genuine leather shoes from $2.29. Everything for your family, home. Satisfaction Guaranteed. Write National Bellas Hess, 220-09 Bellas Hess Building, Kansas City 9, Missouri.

Outdoor Toilets, Cesspools, Septic Tanks cleaned, deodorized with amazing new product. Just mix dry powder with water; pour into toilet. Safe, no poisons. Save digging, pumping costs. Postcard brings free details. Burson Laboratories, Dept. B-22, Chicago 22, Illinois.

Remnants. 80-Sq. cotton prints assorted patterns. First quality, 59c-yard value, 10-yard bundle 2- to 4-yard pieces, $3.99. Postpaid. Money back guarantee. Miller Mail Order, 5904 Prospect, Kansas City, Mo.

Women Needed—We offer wonderful opportunity for spare time money. Your home is your headquarters. No selling or canvassing. Write for free information.
Wilson Ties, Stillwater 2A, Minnesota.

Good money in weaving. Weave rugs at home for neighbors on $59.50 Union Loom. 30,000 doing it. Booklet free.
Union Looms, 80 Post St., Boonville, N.Y.

Look Full fashioned nylon Mill rejects, 6 pr. $1, Imperfects 3 pr. $1, Select Imperfects, 3 pr. $2. Satisfaction guaranteed. Premier Sales, Box 8177, Chattanooga, Tenn.

89 Full size Jig Saw patterns of beautiful shelves, ornaments, toys, novelties. Plus "How, Where to Sell". Only $1.00. Mastercraft 94A, 7041 Olcott, Chicago 31, Ill.

Corsage Making Materials. Flower Arrangers' Supplies. House Plant Helps. Artificial Flower Parts. Instruction Books. Write for Free Catalog now! Floral Art, Dept. SF-9, Teaneck, New Jersey.

Make Up To $45.-$55. Week as a Trained Practical Nurse! Learn quickly at home. Booklet free. Chicago School of Nursing, Dept. F-8, Chicago.

Free Needlecraft Catalog. 40 pages—over 1,000 items, ideas for you to make! Write Dept. CA-20, Frederick Herrschner Co., 29 So. Wabash, Chicago 3, Ill.

Money in new greaseless doughnuts. Start in kitchen. Wholesale to stores. Free plans. Unit Ray Co., 3605 South 15th Ave., Minneapolis 7, Minn.

90 All new, full size lawn ornament and novelty patterns up to 20" high. Only $1.00. Mastercraft 92A, 7041 Olcott, Chicago 31, Illinois.

Embroider Stamped Linens. Buy direct from manufacturer and save. Free 28-page catalog. Merribee, Dept. 895, 22 West 21st St., New York 10, N. Y.

EDUCATION

Practical Nursing—Learn easily at Home Spare Time. Big demand, good earnings. High School not necessary. Write for free facts. Wayne School, Dept. EB-12, 2525 Sheffield, Chicago 14, Ill.

High School-No Classes. Study at home. Spare Time, Diploma awarded. Write for Free Catalog HAO-18. Wayne School, 2527 N. Sheffield, Chicago 14, Ill.

AGENTS WANTED

At Last! Something New and Sensational in Christmas Cards. Make Extra Money Fast! Show Satins, Velours, Metallics. Gets Easy Orders. Pays up to 100% Cash Profit. 30 Free Samples. With Name 50 for $1.25. Big Line. Amazing new Glo-In-The-Dark Ornaments, Personalized Matches, Stationery. Several $1.00 Boxes on Approval. Puro Greetings, 2801 Locust, Dept. 256-L, St. Louis, Mo.

Women! Men! Make extra money in your spare time. No house-to-house canvassing required. New Car given as bonus. Amazing nylons guaranteed as long as 9 months depending on quantity, against runs, snags, holes, or replaced free. Rush name and hose size for simple money making plan. Lowell Wilkin, 329 Wash., Greenfield, Ohio.

Brand New! Amazingly different and smart Christmas Cards bring you Big Money! Take Easy Orders Fast! Pays up to 100% Cash Profit. With Name 50 for $1.25. Big line. Sensational Glo-In-The-Dark Ornaments, Personalized Stationery, Matches. Several $1.00 Boxes on Approval. Imprints Free. North Star, 31 Glenwood, Dept. 9-D, Minneapolis, Minn.

Amazing Money Making Offer $50 or more selling 100 boxes America's Leading Christmas Cards. Samples On Approval. Complete Line. Free Samples Personal Christmas Cards and Stationery. Sensational Bonus. Write. Lorain Art Studios, Dept. 129, Vermilion, Ohio.

New Plastic Mending Tape. Just press on! Repairs clothing instantly. Lightning seller. Samples for Agents.
Kristee 152, Akron, Ohio.

Christmas Cards pay 150% cash profit on $1.25 Assortment. Exclusive new 25-card $1 box. Name imprints, 40 for $1. Big line. Cash Bonus. 5 boxes on approval. Cardinal, 1400 State, Dept. T-74, Cincinnati 14.

Shine Shoes Without "Polish". New invention. Lightning seller. Shoes gleam like mirror. Samples for Agents.
Kristee 150, Akron, Ohio.

The Farmer's Trading Center is one of the nation's leading mail order sections. Use it to to boost your business.

Make Extra Money—for yourself, club or church. Up to 100% profit selling big value Christmas, All-Occasion greeting card assortments to friends, others. 7 leading 21 card $1.00 boxes, Religious and Novel cards. Gift Wrappings, Ribbons, Stationery, Napkins, Animated Books, Sewing Kits, unusual Gifts. Over 150 items. Bonus plan. Experience unnecessary. Write for Samples on approval. Special Offers. Hedenkamp, 361 Broadway, Dept. SU-18, New York.

Cash in on your spare time! Sell beautiful new Regal Christmas Greeting Cards and Gift Assortments. No experience necessary. Costs nothing to get started. Show wonderful samples to friends, relatives, neighbors. Merely take orders and pocket up to 100% profit. Write today for samples on approval. Regal Greetings, Dept. 113, Ferndale, Michigan.

Make Money—Show friends sensational value Christmas Cards with Name—40 for $1.00. Also new Day-Glo, other fast selling assortments. Free Samples Personal Cards; assts on approval. Write Arrow Greetings, Dept. T-75, 515-4th Ave. So., Minneapolis, Minn.

Just Out! New Thrilling Sensation in Christmas Cards. Make Big Money! Show Lustre Foils, Satins, Brilliants. Amazing Values bring Easy Orders! Magic Glo-In-The-Dark Ornaments, Personalized Stationery, Matches. 30 Free Samples. With Name 50 for $1.25. Several $1.00 Boxes on Approval. Joy Greetings, 507 N. Cardinal, Dept. 43-C, St. Louis, Mo.

Call on Friends with sensational Christmas Cards in handy assortments. From $1.00. Profit up to 50c. Also popular priced Personal Christmas Cards, Everyday Assortments, etc. Samples on approval. Wallace Brown, Dept. R-4, New York 10, N. Y.

Absolutely Free! Big package actual sample fabrics and style presentation of dresses, lingerie, hosiery, etc. Take orders. Commissions big. Send no money. Melville Co., Dept. 7503, Cincinnati 25, Ohio.

Boost your mail order business with a classified advertisement in Successful Farming.

FARM SEEDS AND NURSERY STOCK

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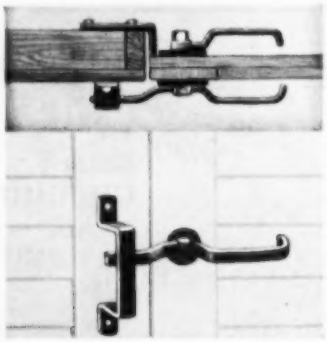
All around the farm *A page written by our readers*

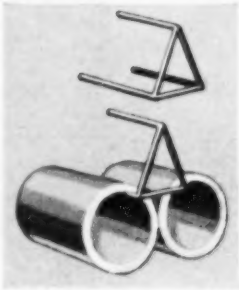
Where our water pipes pass under the driveway in two places, we have run them through 4" tile with pipes 4' or 5' under the driveway surface. In the many years this has been in use, we have never had any trouble with freezing—a trouble often experienced with water pipes that are under drives or roadways. The ground will freeze often 2' or 3' deeper under a driveway than under sod or loose ground, and pipes have to be deeper and better protected to prevent freezing.—*C. B., Minnesota.*

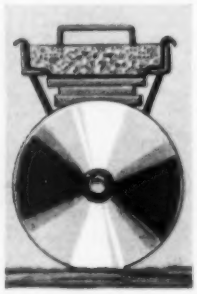
We keep dust down in the building when grinding hay with a hammer mill by fitting a furnace pipe to the top of the dust collector and running it to the outside.—*D. N., Wisconsin.*

I made the sturdy door or gate latch illustrated in my shop. Handles of $\frac{3}{8}$" round iron are bent and welded to a $\frac{1}{2}$" bolt and to a nut, as shown. A piece of stiff steel, such as a piece of harrow tooth, is welded to the bolt-head, also. The bolt is passed through heavy washers on each side of the door, and the $\frac{1}{2}$" hole through the door.



The handle on the nut is turned down to where the latch will operate snugly but not any tighter. The lock nut is set to hold the assembly in adjustment. The strike is made of $\frac{1}{4}$"x1" bar iron, as shown in the illustration, to provide an angled surface against which the latch bar operates to force the door tightly closed.—*V. S., Minnesota.*



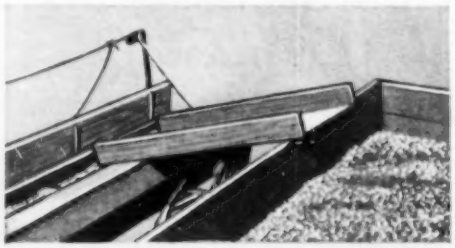


Handiest tile carrier I have ever used is the one pictured. The carrier is made of small steel rods or round iron, $\frac{3}{8}$" in diameter, welded.—*W. D. E., Ohio.*

When harvesting our onions for home storage, we pull or dig them with tops on, and tie them onto a $2\frac{1}{2}$' stake with binder twine. We tie them on so that the stake with the onions on it looks like a bunch of bananas. We set the stake into a gunny sack, draw the top together, and tie. We hang the sack in the garage, or under cover where there is free circulation of air, until freezing weather. Then it is removed to the storeroom. Our onions stay firm and keep well.—*H. M., Wisconsin.*

When changing generators or doing any work where a disconnected wire might short against any metal of the car as long as the battery is connected, I slip a short length of hose over the free ends of the wires. It takes only a 4" length of small hose.—*V. B., Kansas.*

I have made a grain trough for filling the grain drill in the field. It may be made of light wood or of sheet iron 6' long and 2' wide, as shown. Note the cleat on the bottom which holds the trough onto the truck box. I just slide the trough along on the box side as I fill the drill direct from the truck.—*D. S., North Dakota.*



There are times when weight must be added to make the disc harrow do good work. I find concrete reinforced with steel rods is ideal for the purpose and easily formed in the place wanted. Just line the top frame of the disc with waterproof paper and lay boards as illustrated on top of the discs to support the underside of the paper. Then cast the weight in place. Boards are removed after concrete has set. Handles should be placed in the concrete for taking the weights off.—*J. L. A., Iowa.*

Often milking-machine hose lines may pull loose from the milker because of the rubber's stretching, yet the hose may be good otherwise for much longer use. To secure the hose tightly to the nipple over which it is slipped, I put a rubber hose washer of suitable size over the tube end to compress it onto the nipple. Two or three such rubber gaskets may be used if necessary.—*M. G. K., Wisconsin.*

Here where we pitch 7 to 10 tons of hay off a low-slung wagon per man per day, we naturally have tried all types of forks. I have found none works so well as a standard 4-tine fork which has been heated near the base of the tines and bent so as to form a hook-shaped fork. With it we can pull off hay much faster and easier than by pitching it off as in the old method.—*D. H., Nebraska.*

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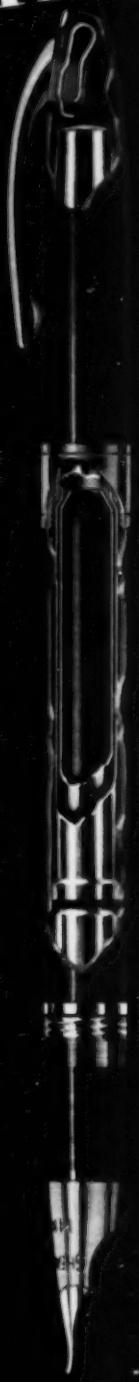

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